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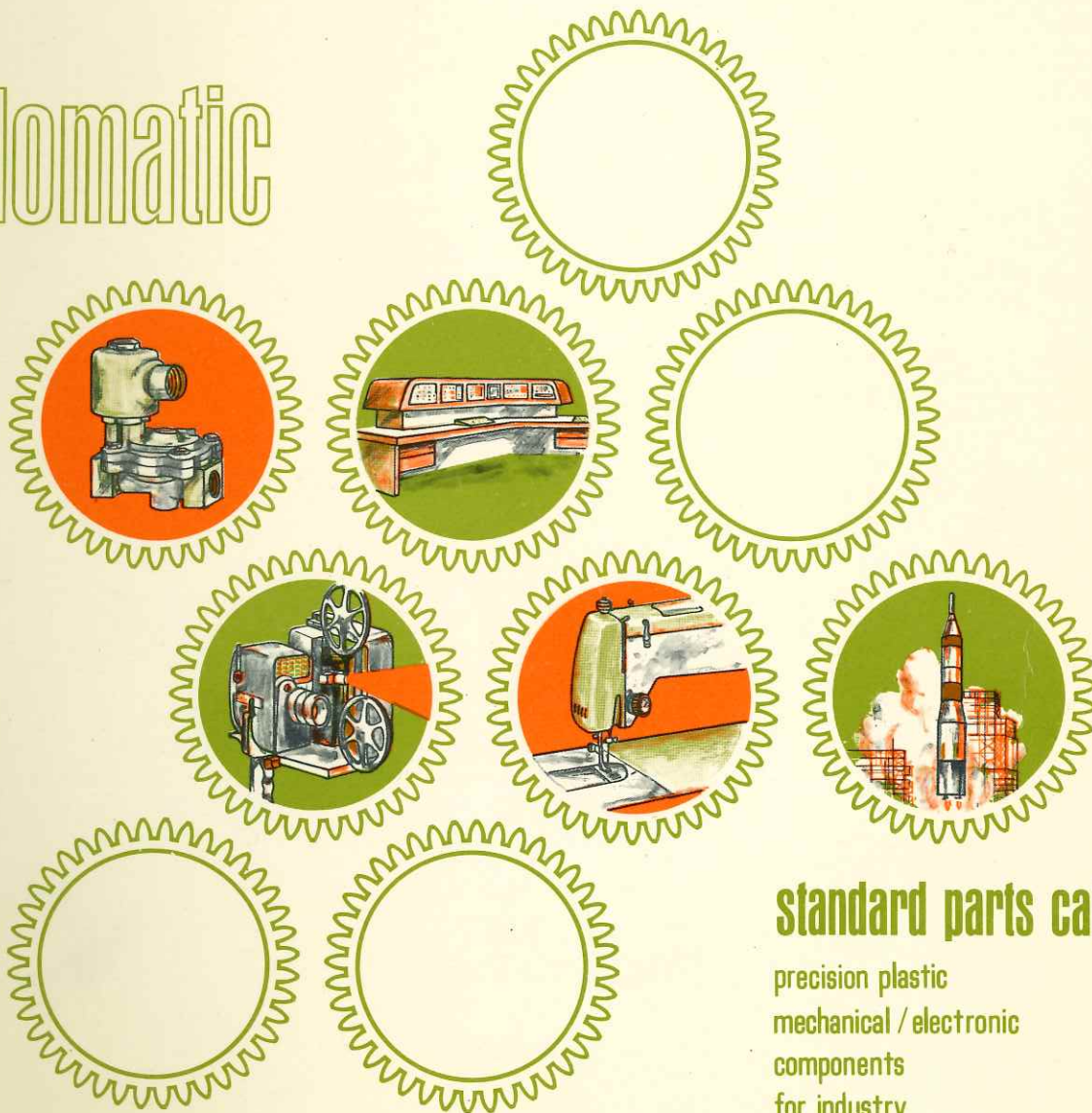
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nylomatic

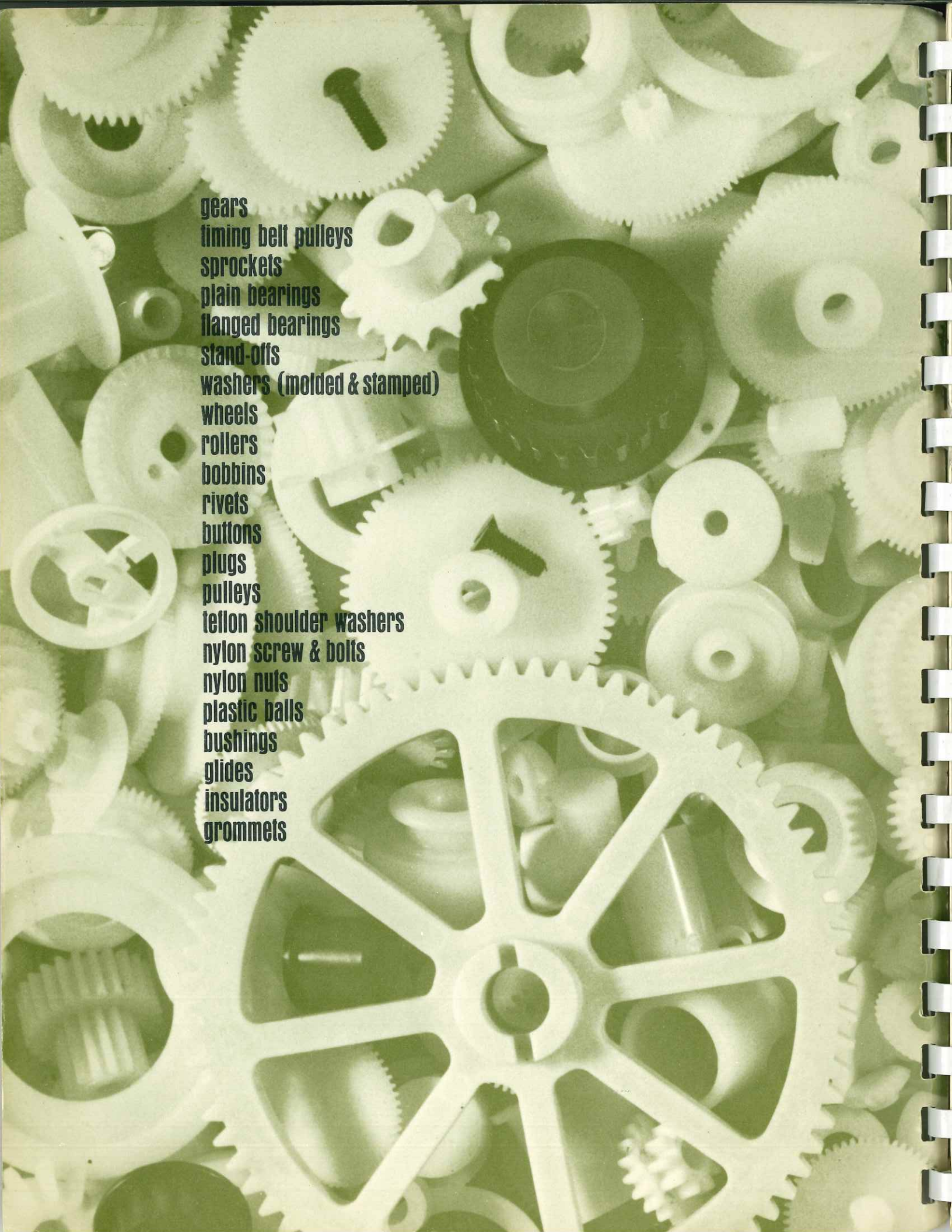


standard parts catalog

precision plastic
mechanical / electronic
components
for industry

nylomatic division
nolan avenue
morrisville, bucks co.,
pennsylvania 19067

6/69



gears
timing belt pulleys
sprockets
plain bearings
flanged bearings
stand-offs
washers (molded & stamped)
wheels
rollers
bobbins
rivets
buttons
plugs
pulley
teflon shoulder washers
nylon screw & bolts
nylon nuts
plastic balls
bushings
glides
insulators
grommets



NYLOMATIC MANUFACTURERS OF PLASTIC MECHANICAL PARTS

NOLAN AVENUE, MORRISVILLE, PENNSYLVANIA 19067/TELEPHONE (215) 295-4151

THANK YOU FOR YOUR INQUIRY.....

Your interest in Nylomatic products and services is appreciated.

We are pleased to send you the attached information. We'll be even more pleased to earn the privilege of counting you as a valued Nylomatic customer for one or more of our 3000 stock items....and our complete custom molding, stamping and machining services.

If we may be of further help with product data or samples, please call us at our home office (area code 215) 295-4151 or contact our local representative in your area:

California, Nevada & Arizona

Littrell Western Sales, Inc.
3121 East 12th St.
Los Angeles, Calif. 94124
(213) 261-0164

100 Produce Ave., Suite 208
So. San Francisco, Calif. 94080
(415) 583-5572

Ohio, Western Penna., Indiana,
Kentucky & Michigan

Luebke Sales Co.
2649 Erie Ave. 20905 Greenfield Rd.
Cincinnati, O. 45208 Southfield, Mich. 48075
(513) 871-4211 (313) 357-0355

3490 S. Dixie Drive 21330 Center Ridge Rd.
Dayton, O. 45439 Room 25A
(513) 294-0426 Cleveland, O. 44116
(216) 734-4242

Illinois, Wisconsin

Ralph T. Rose & Associates
334 Sutton Road
Barrington, Ill. 60010
(312) 446-5950

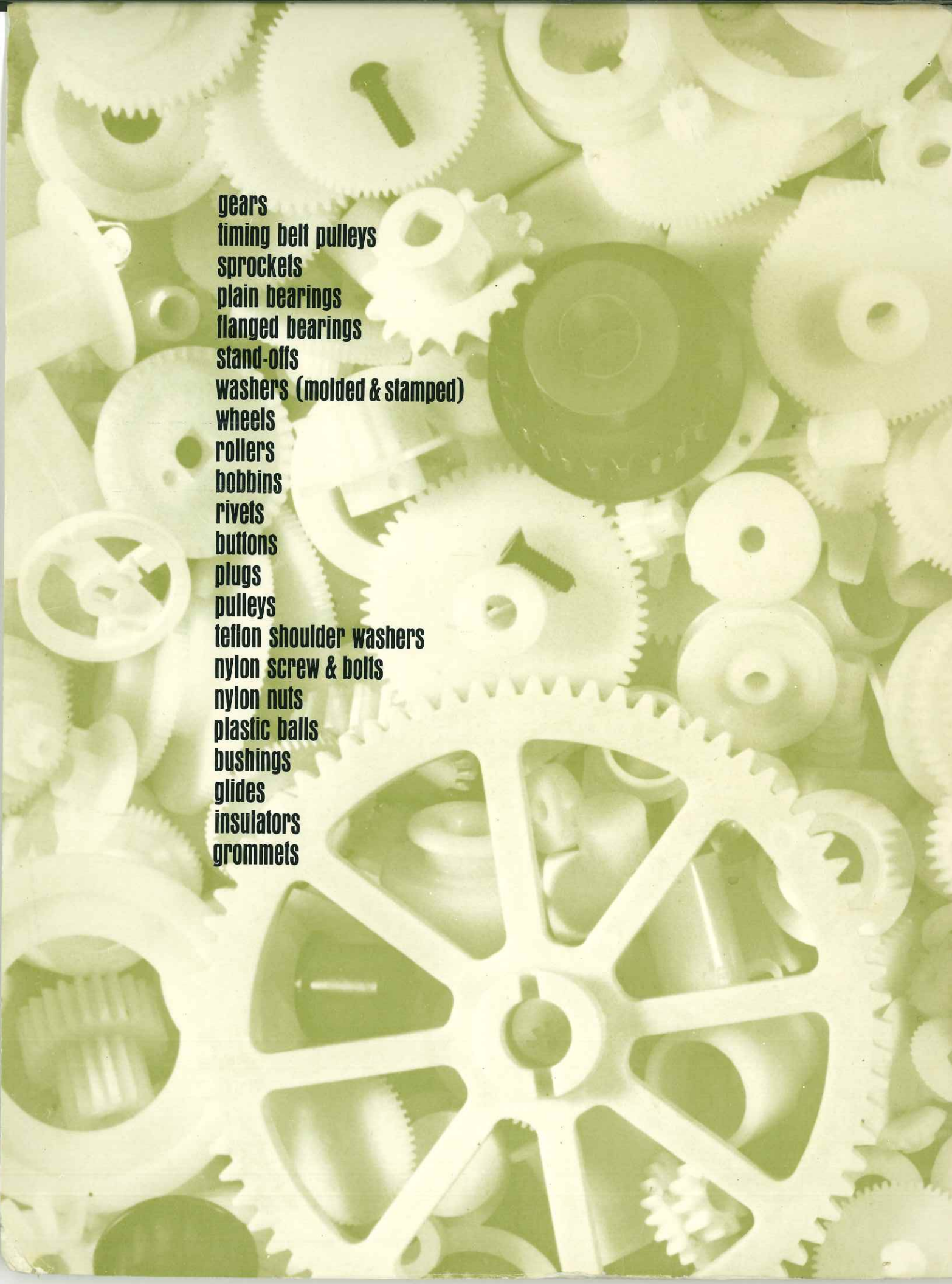
New York City, Northern
New Jersey & Florida

H. R. Williams Assocs., Inc.
P. O. Box 344
Ridgewood, N. J. 07451
(201) 444-5392

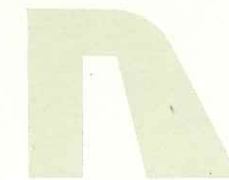
New England

Staley Associates
P. O. Box 205
Wellesley Hills, Mass. 02181
(617) 235-1643

6/19/69



**gears
timing belt pulleys
sprockets
plain bearings
flanged bearings
stand-offs
washers (molded & stamped)
wheels
rollers
bobbins
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If we may be of further help with product data or samples, please call us at our home office (area code 215) 295-4151 or contact our local representative in your area:

A DIVISION OF WEHCO PLASTICS INC.

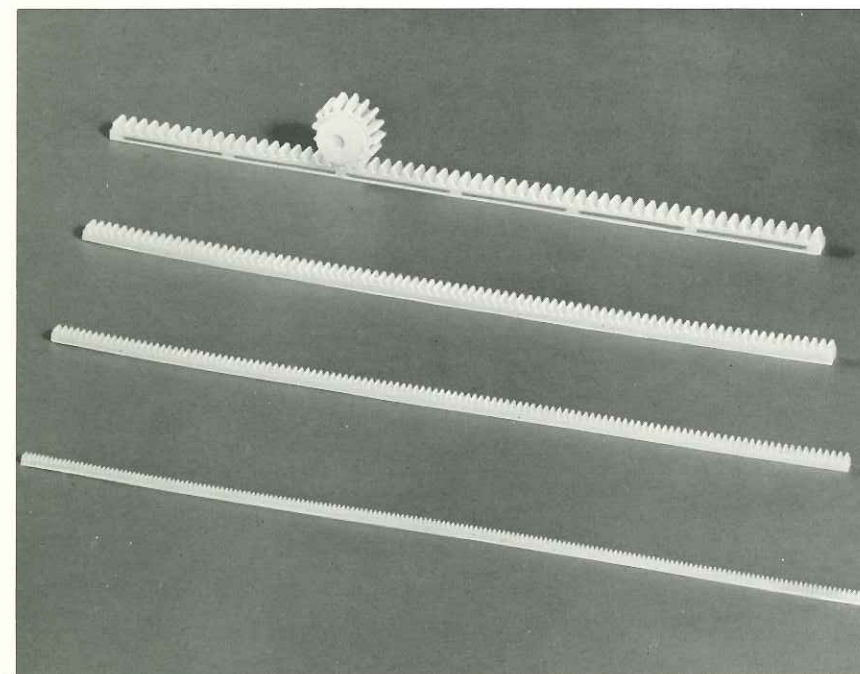
another

NEW
STANDARD

nylomatic

NYLON GEAR RACKS

the one source for plastic mechanical parts



14½° Pressure Angle

16 Pitch

24 Pitch

32 Pitch

48 Pitch

12" Lengths Easy To Cut or Extend
Dimensions and Prices on Next Page

Smooth & Quiet Operation

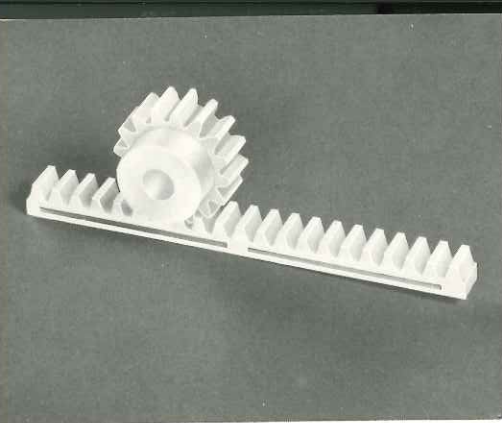
Low Inertia

Superior Wear Resistance

Corrosion Resistant

6/19/69

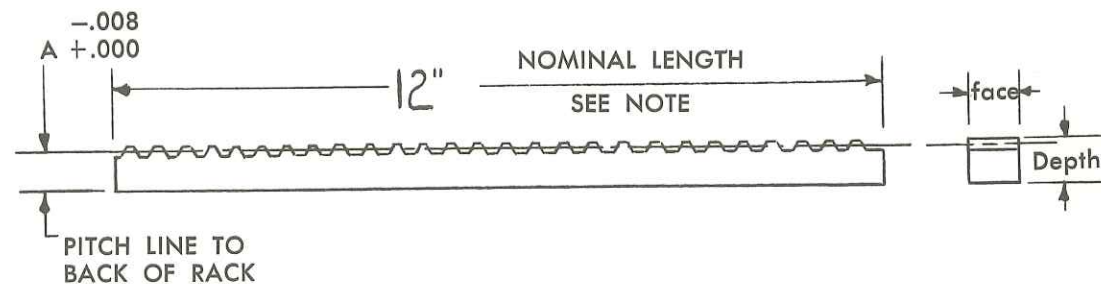
Call or Write
nylomatic division, nolan avenue, morrisville, pennsylvania 19067
telephone (215) 295-4151



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GEAR RACKS

- A \$25.00 set-up charge applies to each part ordered.
- Standard material is DuPont #101 nylon.
- Apply for prices on quantities larger than 5M pieces.
- Prices subject to change without notice.



14½° PRESSURE ANGLE

PART NO.	PITCH	CIRCULAR PITCH	TEETH	'A'	FACE	DEPTH	PRICE PLUS SETUP
N1247-1*	16	.1963	62	.250"	5/16"	5/16"	\$264. M
N1247-2	24	.1309	92	.208	1/4	1/4	195. M
N1247-3	32	.0982	123	.156	3/16	3/16	153. M
N1247-4	48	.0654	184	.104	1/8	1/8	120. M

ENGINEERING KIT (4 EACH OF ABOVE 4 SIZES) AVAILABLE FOR \$14.00

16 pitch racks are recessed 3/32" deep on both sides, allowing a 1/8"-wide rib down the center of rack. Cross ribs at 2" intervals will permit easy drilling and fastening.

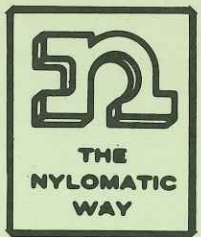
Note: 12" length is a nominal size. Racks are molded in proper lengths to permit end to end butting without interruption of tooth spacing. Unlimited, continuous lengths of rack are thus possible.

Call or Write

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telephone (215) 295-4151

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CATALOG 55 SUPPLEMENT



16 PITCH SPUR GEARS (Pg. 5)

PART NO.	P. A.	TEETH	P. D.	HOLE	FACE	STYLE	HUB		PRICE PLUS SET-UP
							DIA.	PROJ.	
N6693	20°	30	1.875	.254	.379	H	.990	5/16	\$230.00 M
N6817	20°	30	1.875	.257 'D'	.379	H	.990	1/8	\$230.00 M

24 PITCH SPUR GEARS (Pg. 6)

PART NO.	P. A.	TEETH	P. D.	HOLE	FACE	STYLE	HUB		PRICE PLUS SET-UP
							DIA.	PROJ.	
N6724	20°	21	.875	.125	.250	H	.500	.310	\$ 48.50 M
N5827	20°	28	1.167	.370	.063	H	7/16	.250	58.10 M
N6856	20° stub	34	1.417	.502	.405	NH	—	—	85.70 M
N1152A	20°	48	2.000	.218(+)	.250	H	.647	.260	119.60 M

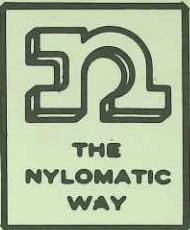
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32 PITCH SPUR GEARS (Pg. 7-8)

PART NO.	P. A.	TEETH	P. D.	HOLE	FACE	STYLE	HUB		PRICE PLUS SET-UP
							DIA.	PROJ.	
N6692	14½°	14	.438	.187	3/16	NH	—	—	\$ 34.66 M
N5521	14½°	18	.563	.283	.071	NH	—	—	33.10 M
N5554	14½°	20	.625	.314	11/32	H	.525	5/32	52.15 M
N6978	14½°	20	.625	.315	.218	H	.500	.250	50.45 M
ND11	14½°	28	.875	.375	.187	NH	—	—	50.80 M
N6298A	14½°	32	1.000	.245	5/16	H	5/8	1/4	85.80 M
N6874	14½°	32	1.000	.441	.440	H	.687	.250	101.10 M
N6960	14½°	44	1.375	.315	.187	H	5/8	.047	76.40 M
N7003	14½°	52	1.625	.441	.500	H	.880	.380	159.60 M
N5444	14½°	62	1.938	.252	.125	H	.614	.490	133.55 M
N6557	20°	19	.594	.251	.160	H	.734	.094	49.05 M
N6825A	20°	24	.750	.130	.125	H	.19	.025	43.20 M
N6877	20°	44	1.375	.378	3/16	H	1-1/16	5/16	136.95 M
N6875	20°	44	1.375	.579	3/16	H	1-1/16	5/16	136.95 M
N1189	20°	59	1.844	.621	.239	NH	—	—	132.30 M
N6876	20°	62	1.938	.253	3/16	H	3/4	5/16	137.10 M
N1220	20°	72	2.250	.379K	3/16	H	11/16	5/16	150.80 M
N1219	20°	80	2.500	.882	1/8	H	1-1/16	.371	150.65 M

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Issued 6-69



48 PITCH SPUR GEARS (Pg. 9-10)									
PART NO.	P. A.	TEETH	P. D.	HOLE	FACE	STYLE	HUB		PRICE PLUS SET-UP
							DIA.	PROJ.	
N6642	14½°	12	.250	.125	1/8	NH	—	—	\$ 44.60 M
N6819	14½°	20	.417	.189	.187	H	11/32	.125	47.20 M
N6848	14½°	24	.500	.256	.280	H	.406	.03	49.40 M
N6820	14½°	32	.667	.189	.125	H	1/2	1/4	50.50 M
N6641	14½°	36	.750	.250	1/8	NH	—	—	47.70 M
N6496	14½°	37	.771	.125	.215	NH	—	—	57.25 M
N6565	14½°	40	.833	.247'D'	.125	H	.62	.250	53.10 M
*ND10	14½°	40	.833	.375	.312	H	9/16	.250	53.10 M
N2145	14½°	42	.875	.250	.125	H	.44	.250	53.85 M
N6576	14½°	44	.917	.125	.124	H	.28	.131	53.95 M
N2127	20°	30	.625	.128	.055	H	.25	.148	53.95 M
N6560	20°	36	.750	.246	.385	NH	—	—	47.70 M
N6559	20°	36	.750	.496	.450	H	11/16	.100	49.85 M
N5691	20°	42	.875	.250	.125	H	.437	.065	52.35 M

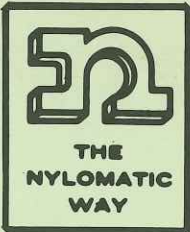
*also has a 9/16 d. x .063 L. hub on other side

MISC. SPUR GEARS (Pg. 11)										
PART NO.	PITCH	P. A.	TEETH	P. D.	HOLE	FACE	STYLE	HUB		PRICE PLUS SET-UP
								DIA.	PROJ.	
N6910	12	14½°	16	1.333	.378	.200	NH	—	—	\$ 67.60 M
N1183	12	14½°	24	2.000	.673	1/4	NH	—	—	120.65 M
N1183A	12	14½°	24	2.000	.880'DD'	1/4	NH	—	—	120.65 M
N6992	20	20°	18	.900	.491	5/16	NH	—	—	63.80 M
N6995	20	20°	22	1.100	.367	5/16	NH	—	—	64.90 M
N1029A	20	20°	25	1.250	.314	3/16	H	7/16	3/16	87.50 M
N7002	64	20°	16	.250	.092	.125	NH	—	—	43.40 M
N6943	64	14½°	96	1.500	.258	1/4	H	5/8	1/4	69.00 M

COMBINATION GEARS (Pg. 12-14)											
PART NO.	PINION					GEAR					PRICE PLUS SET-UP
	PITCH	P. A.	TEETH	P. D.	FACE	PITCH	P. A.	TEETH	P. D.	FACE	
N5999	24	14½°	12	.500	.218	32	14½°	36	1.125	.124	\$58.80 M
*N6824	32	20°	10	.312	.196	32	20°	38	1.188	.114	47.90 M
N6570	32	20°	10	.313	.343	48	20°	74	1.542	.188	61.75 M
N2104	32	14½°	12	.375	.250	32	14½°	28	.875	.125	57.80 M
N5370	48	14½°	10	.208	.156	48	14½°	40	.833	.094	50.00 M
N6961	64	20°	40	.625	.469	32	14½°	40	1.250	.187	84.35 M

*Available with either a .025 hub or a .350 x .06 counterbore

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1/5" PITCH TIMING BELT PULLEYS (Pg. 17)*										
PART NO.	Grooves	P. D.	FACE	FLANGE O. D.	HOLE	KEYWAY	STYLE	HUB		PRICE PLUS SET-UP
								DIA.	PROJ.	
N6712	10	.637	9/32	23/32	19/64	—	H	23/32	9/32	\$150.00 M
N5490-10	10	.637	.31	.85	.250	—	H	9/16	1/4	150.00 M
N6449	11	.700	.54	.93	.250	—	NH	—	—	160.00 M
N6452	11	.700	.54	.92	.312	.094 x .045	H	1/2	5/32	160.00 M
N6852	12	.764	.27	.80	.190	—	NH	—	—	170.00 M
N5490-12	12	.764	.31	.92	.250	—	H	9/16	1/4	170.00 M
N5489-12	12	.764	.43	.92	.312	—	H	9/16	1/4	170.00 M
N6483	12	.764	.54	.98	.250	.062 x .030	NH	—	—	170.00 M
N6448	12	.764	.54	.98	.312	.094 x .045	H	1/2	5/32	170.00 M
N6497	12	.764	.54	.94	.375	.094 x .045	NH	—	—	170.00 M
N6451	13	.828	.54	1.04	.400	.094 x .045	NH	—	—	180.00 M
N6962	14	.891	9/32	1¼	.315	—	H	1.013	.258	190.00 M
N5490-14	14	.891	.43	1.11	.250	—	H	9/16	1/4	190.00 M
N6455	14	.891	.54	1.11	.250	.062 x .040	NH	—	—	190.00 M
N5973	15	.955	5/16	1.04	.255	—	H	5/8	1/8	200.00 M
N6460	15	.955	.54	1.18	.500	—	H	1	5/8	200.00 M
N6974-2	16	1.019	5/16	1¼	.378	—	H	13/16	1/4	210.00 M
N6974-1	16	1.019	5/16	1¼	.442	—	H	13/16	1/4	210.00 M
N6461	16	1.019	.54	1.25	.500	—	H	1	5/8	210.00 M
N6939A	16	1.019	.54	1.25	.257'D'	—	NH	—	—	210.00 M
N6939B	16	1.019	.54	1.25	.257	—	H	1	1/4	210.00 M
N6458	18	1.146	.54	1.36	.250	.062 x .030	NH	—	—	230.00 M
N6459	18	1.146	.54	1.38	.500	—	H	1	19/64	230.00 M
N6463	19	1.210	.54	1.44	.500	—	H	1	5/8	240.00 M
N6711	20	1.273	13/32	1-23/64	15/64	—	NH	—	—	250.00 M
N6485	20	1.273	.54	1.50	.250	.062 x .035	NH	—	—	250.00 M
N6498	20	1.273	.54	1.45	.375	.094 x .042	NH	—	—	250.00 M
N6456	20	1.273	.54	1.50	.500	—	NHS	1	5/8	250.00 M
N1010-22	22	1.401	.43	1.62	.312	—	H	9/16	5/16	270.00 M
N6454	23	1.464	.54	1.68	.250	.063 x .036	NH	—	—	280.00 M
N6513	23	1.464	.54	1.68	.312	—	NHS	1/2	5/32	280.00 M
N6465	23	1.464	.54	1.68	.500	—	H	1	5/8	280.00 M
N5485-24	24	1.528	.31	1.56	.250	—	H	9/16	1/4	300.00 M
N6462	24	1.528	.54	1.75	.500	—	NHS	1	5/8	300.00 M
N6708	28	1.783	13/32	1-57/64	.752	—	NH	—	—	350.00 M
N6464	28	1.783	.54	2.00	.500	—	H	1	5/8	350.00 M
N1241	30	1.910	.24	1.95	.501	.090 x .040	NH	—	—	380.00 M
N1208	35	2.228	9/32	2-5/16	.367	—	NH	—	—	440.00 M
N1177	40	2.546	.54	2.77	.468	.094 x .045	H	15/16	3/16	500.00 M
N1178	42	2.674	.54	2.90	.312	.094 x .045	NHS	1/2	3/16	520.00 M
N1176	48	3.056	.59	3.28	.500	.094 x .045	NH	—	—	600.00 M

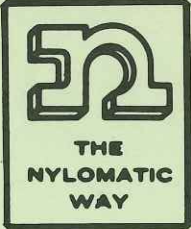
*This list includes all items on Pg. 17 of Catalog 55 with new prices effective immediately.

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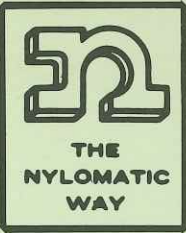


1/4" PITCH SPROCKETS (Pg. 18)						
PART NO.	TEETH	O.D.	I.D.	HUB DIA.	HUB LENGTH	PRICE PLUS SET-UP
N6826	18	1.568	.374	0.750	.312	\$92.75 M

PLAIN BEARINGS, WASHERS, STAND-OFFS (Pg. 19-22)										
PART NO.	I.D.	O.D.	Length	Price Plus Set-up		PART NO.	I.D.	O.D.	Length	Price Plus Set-up
N6617	.088	5/32	1/16	\$11.20 M		N6834	.255	.375	.044	\$11.10 M
ND17	.097	.220	.167	15.40 M		N6738	.255	.375	.540	11.70 M
N6725	.098	.188	.045	10.00 M		ND31	.256	.514	.811	49.85 M
N6732	.105	.170	.400	10.00 M		N6849	.255	7/16	.062	10.50 M
ND18	.115	7/16	1/8	16.35 M		N6686	.259	.751	.247	14.95 M
ND47	.123	1/4	9/16	15.05 M		N6904	.315	5/8	.065	13.10 M
N6680	.125	.178	7/32	10.00 M		N6892	.319	7/8	1/4	54.05 M
N6645	.128	1-1/8	1/8	36.95 M		N6721-1	21/64	1	3/16	75.60 M
ND72	.157	9/32	.125	17.35 M		N6795	.377	.497	2.018	37.50 M
ND56	.184	3/8	3/4	18.30 M		N6948	.378	.750	1	36.75 M
N6808	3/16	3/4	1/16	8.10 M		ND64	.382	47/64	1/16	15.00 M
N6706	.191	7/16	1/16	11.70 M		ND53	.380	9/16	.160	22.10 M
ND69	.194	.343	.031	16.50 M		N6749	.420	.657	.375	16.50 M
N6338	.190	.627	.343	15.90 M		N6893	.506	1-1/8	3/16	55.30 M
ND67	.196	.465	.265	15.40 M		ND89	.513	.730	.120	16.50 M
ND84	.236	.302	.500	15.55 M		ND45	33/64	1-1/4	3/32	19.50 M
ND33	.250	.520	.250	16.95 M		N1224	.521	2-3/8	3/16	95.70 M
ND60	.250	.562	.062	15.40 M		ND42	39/64	1-3/32	1/8	25.90 M
N6775	.255	.345	.546	10.70 M		ND35	.646	7/8	1/4	18.70 M
N6938	.255	.375	.303	11.40 M		N6765	.757	1.001	.284	27.25 M



FLANGED BEARINGS, INSULATORS, SLEEVES (Pg. 23-27)													
PART NO.	I.D.	O.D.	Flange Dia.	Flange Thick.	O.L.	Price + Set Up	PART NO.	I.D.	O.D.	Flange Dia.	Flange Thick.	O.L.	Price + Set Up
N6621	.021	.062	1/8	.015	.040	16.80 M	ND52	.210	.297	.420	.070	.610	15.15 M
ND36	5/64	3/16	1/4	1/16	1/8	15.05 M	ND83	.233	.302	.500	.090	.590	16.10 M
ND65	.124	.166	.230	.030	.220	16.80 M	ND13	.252	.386	.502	.065	.875	17.90 M
ND63	.125	.240	.312	.078	.156	17.20 M	ND85	.261	.377	.485	.060	.380	33.80 M
N1102	.123	.342	5/8	1/16	1/4	15.40 M	ND61	.260	.353	.555	.060	.410	15.40 M
ND40	.130	.169	.250	.015	.025	15.20 M	ND1	.261	.379	.509	.062	.113	19.15 M
ND3	.130	.186	.254	.036	.952	43.70 M	ND51	.265	.508	1.000	.167	.385	48.55 M
ND95	.142	.191	1/2	.040	.095	15.10 M	N5665	.314	.433	5/8	1/16	7/16	21.90 M
ND28A	.144	.242	3/8	.253	15/16	17.10 M	ND92	.320	.365	1/2	5/8	7/8	19.30 M
ND75	.148	.186	.250	.015	.025	16.10 M	ND91	.318	.369	1/2	1-5/16	1-9/16	43.80 M
ND81	.159	.249	.312	.062	.250	18.55 M	ND82	.320	.441	.750	.068	.818	19.10 M
N199	.158	.217	1/2	.062	.312	23.60 M	ND94	.331	.385	.700	.030	.078	15.20 M
N6801	.170	.309	.375	1/16	1/8	15.30 M	N6743	.376	.501	.705	.063	.566	18.20 M
N6716	.172	.248	.308	.127	.320	15.80 M	N6921	.376	.623	.750	.125	.375	20.60 M
ND80	.191	.378	1/2	1/16	9/16	33.50 M	N2139	.379	.513	.750	.041	.258	55.20 M
N6771	.194	.363	.560	.064	.703	17.70 M	ND14	.388	.508	.630	.070	.875	19.30 M
N6883	.198	.250	.500	.032	.100	17.00 M	ND79	.521	.617	.740	.160	.472	19.10 M
N6740	.198	.374	1/2	7/16	9/16	13.25 M	N6937	.544	.723	.800	.035	.160	18.85 M
N5890	.206	.315	.431	.091	.146	16.75 M	N6902	.629	.878	1.258	.072	.777	39.60 M
ND26	.209	.319	5/8	.048	9/64	17.00 M	ND21	.759	1.002	1.485	.100	.580	38.50 M

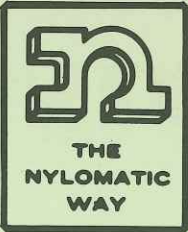


ROLLERS – SOLID & CORED (Pg. 28)						
PART NO.	TYPE	O.D.	WIDTH	I.D.	O.L.	PRICE PLUS SET-UP
ND33	A	.520	.250	.250	–	\$16.95 M
N6338	A	.627	.343	.190	–	12.46 M
N6686	A	.751	.247	.259	–	11.15 M
N6892	A	7/8	1/4	.319	–	54.05 M
N6936	F	3/4	3/8	.255	5/8	21.35 M

PLAIN & FLANGED ROLLERS WITH COUNTER BORES (Pg. 30)									
PART NO.	TYPE	I.D.	O.D.	COUNTER BORE		FLANGE		O.L.	PRICE PLUS SET-UP
				DIA.	DEPTH	DIA.	THICK		
N6672	–	.316	.875	1/2	7/32	–	–	13/16	\$57.60 M
N6872	X	.315	.900	5/8	1/8	1-13/16	7/32	.450	80.70 M
N6741	Y	.130	5/16	1/4	1/16	15/32	9/64	11/64	8.20 M
N5109	Y	.315	.376	.387	.036	.563	.063	.150	7.00 M

BOBBINS & SPOOLS (Pg. 31)							
PART NO.	TYPE	FLANGE DIA.	FLANGE THICK	I.D.	O.D.	OAL.	PRICE PLUS SET-UP
N6709	A	1/2	3/64	.190	5/16	1-1/16	\$27.65 M
*N6573	A	5/8	.030	.168	3/8	.362	51.20 M
N1184	A	1-3/8	.040	.254	15/16	41/64	95.60 M
N1228	A	1-3/8	1/16	21/32	7/8	1-3/16	109.40 M

*Has a 9/32 dia. x .020 hub on one side.



RIVETS, BUTTONS, PLUGS (Pg. 32)						
PART NO.	HEAD TYPE	SHANK DIA.	SHANK LENGTH	HEAD DIA.	HEAD THICK	PRICE PLUS SET-UP
N6540R	A	.160	3/16	5/16	.125	\$ 5.30 M
N6685R	B	.058	3/32	3/32	.025	4.20 M
N5705	C	.079	.104	.147	.023	4.40 M
N183R	C	.147	.187	.375	.036	18.35 M
N6705R	C	.188	13/32	7/16	3/32	11.15 M
N6669	D	.070	.047	.125	.109	13.40 M
ND78R	D	.092	.090	.155	.058	15.55 M
N6993	D	.134	.140	.250	.080	5.10 M
N6622	D	.193	1/8	1/2	1/8	9.90 M

PULLEYS (Pg. 33)							
PART NO.	TYPE	OUTER DIA.	SLOT DIA.	SLOT WIDTH	OVERALL WIDTH	BORE	PRICE PLUS SET-UP
N5727	A	5/8	5/16	–	7/32	.064	\$ 21.75 M
N6539	A	.875	.656	.125	.406	.194	46.40 M
N6832	A	1-1/8	.718	.040	.232	.177	40.45 M
N5860	B	.378	.299	.076	.182	–	20.25 M
N6396	D	.500	.370	.103	.143	.127	94.80 M
N6855	D	1.245	.960	.125	.245	.254	37.35 M
N6946	D	1-3/8	1-3/16	1/8	3/16	.191	58.80 M

this is nylomatic

catalog
55



Nylomatic is an engineering-oriented organization for plastic mechanical and electronic parts used by industry. Founded in 1950, when mechanical plastics was a pioneering field, Nylomatic has developed specialized engineering and patented tooling processes to produce precision moldings at attractive prices in quantities from a few parts for prototype use to million-unit production orders.

A MODERN FACILITY — The Nylomatic plant, specially constructed to our requirements, has a complete tool and die making department, including electrical discharge machining equipment for intricate die cavities, as well as the most modern screw type molding machines and related equipment.

EXPERIENCED TEAM — Nylomatic employs a skilled team of over 100 specialists, including graduate mechanical engineers and master toolmakers, assuring you of the highest production standards.

NYLON AND DELRIN® SPECIALISTS — While Nylomatic specializes in these high performance materials, we also fabricate parts in other thermoplastic materials.

STANDARD PARTS — All of the more than 2,500 items listed in this catalog are, by definition, standard parts. Regardless of the quantity ordered, there is no tooling charge involved in the production of these standard parts listed. Our patented process enables us to ship production quickly, with only a modest \$25.00 set-up cost chargeable to the customer. Additionally, for a nominal charge, we can often make a minor modification to a standard part, permitting its use instead of a more expensive custom part.

NOTE: We are continually adding new standard parts to our catalog. We, therefore, suggest that you ask us about the possible availability of parts which you do not see in the catalog.

CUSTOM MANUFACTURING SERVICE — Nylomatic can furnish on a custom basis not only injection molded parts of the highest quality, but machined and punched plastic parts of any commercially available material. Tooling costs on custom injected molded parts start as low as \$125.00 for simple shapes. Average tooling costs on small parts is approximately \$450.00.

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general specifications

injection molded parts

Materials

Standard material is DuPont type #101 natural color nylon.
Many standard parts can be molded of Delrin* at no change in price; also other materials and colors are available; prices upon application.

Tolerances

Tolerances on decimals are $\pm .005$ per inch of dimension with a minimum of $\pm .002$, except dimensions marked (†) carry a minimum of $\pm .003$.
Tolerances on all fractional dimensions are $\pm .015$ per inch of dimension.
Total indicated runout is .010 per inch of dimension.

Pricing and Terms

Add a \$25.00 set-up charge to each item listed.
All prices are subject to change without notice.
Terms on production are 1% 10 days, net 30 days F.O.B. Morrisville, Pa.
(*Reg. trade name—DuPont Co.)

stamped parts

Materials

Stamped parts are available in type #101 Nylon, Delrin*, Nylatron GS**, polyethylene and Teflon*.
The standard thicknesses are .031", .047", .062", .093" and .125".
(*Reg. trade name—DuPont Co. **Reg. trade name—Polymer Corp.)

Tolerances

Commercial tolerances on O.D. and I.D. are $\pm .004$ ".
Closer tolerances available by construction of special dies at extra cost.
Material tolerances are based on standard mill tolerance. Rule of thumb from 5 to 10% plus or minus. Available in closer tolerances on special order at extra cost.

Burrs

Slight burrs are inherent on high speed punchings. In some cases these burrs can be removed by tumbling but with abrasion resistant materials such as nylon some burrs must be expected. If the edges must be smooth the parts should be produced by machining or molding.

Flatness

As washers are stamped from coiled strips they very often will not be flat. This condition becomes more pronounced as the thickness of material increases.

Standard Sizes

The sizes listed are available without tooling charges.
Intermediate sizes can be supplied but may involve a nominal charge for special tooling.

Prices

Prices of stamped parts are quoted upon application.
Please state the size, thickness, material and quantity required.

IF YOU DON'T SEE WHAT YOU WANT, LET NYLOMATIC QUOTE ON PRODUCTION TO YOUR SPECIFICATIONS FROM PATENTED LOW-COST TOOLING.

save TIME save MONEY
with this new design tool . . .

nylomatic
ENGINEERING KITS



KIT. NO.	CONTENTS	PRICE
G-1-16	2 ea. 16 Pitch Gears listed on page 5	\$20.00
G-1-24	2 ea. 24 Pitch Gears listed on page 6	15.00
G-2-32	2 ea. 32 Pitch Plain Gears listed on page 7	15.00
G-3-32H	2 ea. 32 Pitch Gears with Hubs listed on page 8	16.50
G-4-48	2 ea. 48 Pitch Plain Gears listed on page 9	15.00
G-5-48H	2 ea. 48 Pitch Gears with Hubs listed on page 10	15.00
G-7-M	2 ea. Miscellaneous Gears 14½° and 20° PA listed on Page 11	15.00
G-8-32C	2 ea. 32 Pitch Combination Gears listed on page 12	15.00
G-6-48C	2 ea. 48 Pitch Combination Gears listed on page 13	15.00
G-9-C	2 ea. Miscellaneous Combination Gears listed on page 14	15.00
G-8-M	2 ea. Miscellaneous Miter Gears and Angle Gears listed on pages 15 and 16	15.00
BP-2	2 ea. Timing Belt Pulleys 1/5" Pitch listed on page 17	27.00
SP-4	2 ea. 1/4" Pitch Sprockets listed on page 18 except those marked †	15.00
WSB-1	2 ea. Plain Bearings listed on page 19	12.00
WSB-2	2 ea. Plain Bearings listed on page 20	12.00
WSB-3	2 ea. Plain Bearings listed on page 21	12.00
WSB-4	2 ea. Plain Bearings listed on page 22 except those marked *	10.00
FB-1	2 ea. Flanged Bearings listed on page 23	15.00
FB-2	2 ea. Flanged Bearings listed on page 24	15.00
FB-3	2 ea. Flanged Bearings listed on page 25	15.00
FB-4	2 ea. Flanged Bearings listed on page 26	15.00
FB-5	2 ea. Flanged Bearings listed on page 27	18.00
RW-1	2 ea. Rollers listed on page 28	20.00
RW-2	2 ea. Rollers listed on pages 29 and 30	15.00
MB-2	2 ea. Bobbins listed on page 31	15.00
TF-3	4 ea. Teflon Shoulder washers listed on page 34	15.00
RBP-1	4 ea. Rivets listed on page 32	14.00
P-1	2 ea. Pulleys listed on page 33	15.00
SW-1	6 ea. Washers 1/8" - 3/8" listed on page 35	15.00
SW-2	6 ea. Washers 7/16" - 11/16" listed on page 35	15.00
SW-3	6 ea. Washers 3/4" - 1" listed on page 35	15.00
SW-4	6 ea. Washers 1 1/8" - 2 3/8" listed on page 35	15.00
GR-1	4 ea. Gear Racks	14.00

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16 PITCH SPUR GEARS

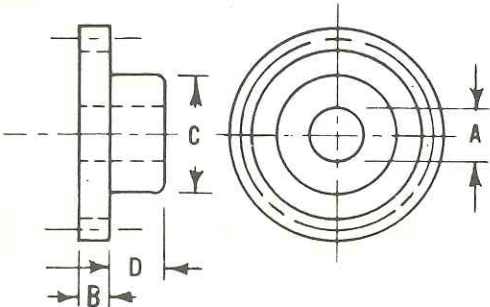


- A \$25.00 set-up charge applies to each part ordered.
- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon, natural color.
- Apply for prices on quantities larger than 20M pieces.
- Prices subject to change without notice.

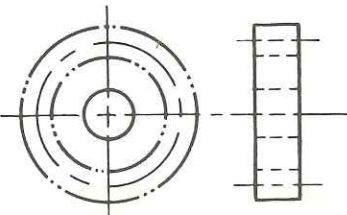
16 Pitch



Actual
Tooth Size



STYLE H



STYLE NH

14½° PRESSURE ANGLE									
PART NO.	P. A.	TEETH	HOLE A	P. D.	STYLE	HUB		FACE B	PRICE PLUS SET-UP
						DIA. C	PROJ. D		
N5793	14½	12	.249	.750	H	.430	.028	.225	\$ 47.00 M
N6589	14½	16	.252	1.000	H	3/4	5/16	.375	84.00 M
N5626	14½	20	1/2	1.25	H	.865	1/2	.318	109.59 M
N6171	14½	30	.986	1.875	H	1.602	.500	.875	257.60 M
N1004-1	14½	36	.375	2.25	H	3/4	3/8	.320	310.40 M
N1109*	14½	42	.400	2.625	H	1.360	1/4	.625	324.80 M
N1143A	14½	42	.850	2.625	H	1 3/8	1/4	5/8	395.25 M
20° PRESSURE ANGLE									
N5896	20	12	.192	.750	NH	—	—	.095	\$ 46.37 M
N6209	20	30	.367	1.875	H	.990	.500	.379	179.79 M
N1166	20	34	.365	2.12	H	1	.510	.375	264.23 M
□N1165	20	76	1/2	4.75	H	7/8	1/4**	3/8	1204.00 M
□N1126	20	80	1/2	5.00	H	7/8	1/4**	3/8	1240.00 M

- * Has a .126 wide keyway
□ Available only in glass filled Delrin Matl. \$50.00 set-up charge.
** Has a 1/4" extension each side

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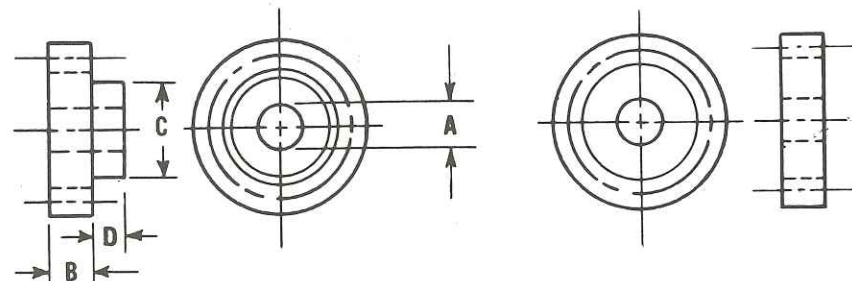


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24 PITCH SPUR GEARS

- A \$25.00 set-up charge applies to each part ordered.
- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon.
- Apply for prices on quantities larger than 20M pieces.
- Prices subject to change without notice.

24 Pitch



STYLE H

STYLE NH

14½° PRESSURE ANGLE

PART NO.	TEETH	P. D.	HOLE A	STYLE	FACE B	HUB		PRICE PLUS SET-UP
						DIA. C	PROJ. D	
N6004	12	.500	.250 x .192(D)	H	.256	.398	.188	\$ 47.48 M
N5828-12	12	.500	.252	H	.318	.370	.250	48.58 M
N5602-1	15	.625	.250	NH	.220	—	—	48.12 M
N2045-1	18	.75	.250 x .192(D)	H	1/4	1/2	3/16	52.88 M
N2045-2	18	.75	.253	H	1/4	1/2	3/16	52.88 M
N2045-3	18	.75	.253	H	1/4	.442	7/16	53.87 M
N2045-4	18	.75	.250	H	1/4	1/2	.095	52.12 M
N2045-5	18	.75	.250	H	1/4	1/2	1/4	53.00 M
N5851	18	.75	.250 x .215(D)	H	.256	.493	.250	53.00 M
N240	21	.875	.377 x .318(D)	H	1/4	5/8	5/16	58.88 M
N297	24	1.00	.252	H	1/4	5/8	3/16	59.20 M
N5515	24	1.00	.256	H	1/4	5/8	3/8	42.10 M
N417	27	1.125	.314	NH	.183	—	—	33.30 M
N6290	36	1.500	.249	NH	.093	—	—	69.49 M
N5425	40	1.667	.125	H	.047	1/2	1/8	66.43 M
*N1044	84	3.50	.378	H	.325	.850	.230	582.00 M

20° PRESSURE ANGLE

N6530	18	.75	.304	H	1/4	1/2	1/8	\$ 27.79 M
N5774	24	1.00	.256	NH	3/8	—	—	57.83 M
N6274	36	1.50	.250	NH	1/8	3/8	1/16	79.48 M
N5775	36	1.50	.310	H	3/8	.738	.250	89.71 M

* \$50.00 set-up charge.

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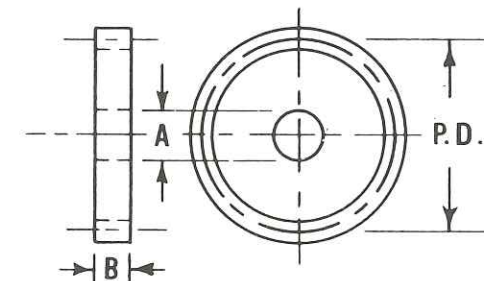
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32 PITCH SPUR GEARS — PLAIN

- A \$25.00 set-up charge applies to each part ordered.
- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon.
- Apply for prices on quantities larger than 20M pieces.
- Prices subject to change without notice.

32 Pitch



14½° PRESSURE ANGLE

PART NO.	TEETH	P. D.	HOLE A	FACE B	PRICE PLUS SET-UP
N32-12	12	.375	.125	3/16	\$ 45.50 M
N32-14	14	.438	.125	3/16	45.94 M
N6097	14	.438	.127	3/16	45.94 M
N6548	14	.438	.188 sq	3/16	45.94 M
N32-16	16	.500	.190	3/16	46.37 M
N32-18	18	.563	.190	3/16	46.83 M
N32-20	20	.625	.190	3/16	47.48 M
N32-24	24	.750	.190	3/16	49.25 M
N5594	24	.750	.252	.177	49.25 M
N32-28	28	.875	.190	3/16	50.80 M
N32-32	32	1.000	.250	3/16	52.32 M
N32-36	36	1.125	.250	3/16	53.50 M
N5832	36	1.125	.313	.382	62.93 M
N32-38	38	1.188	.250	3/16	71.76 M
N32-40	40	1.250	.250	3/16	73.75 M
N32-44	44	1.375	.250	3/16	76.77 M
N32-48	48	1.500	.250	3/16	80.55 M
N2096	48	1.500	.500	3/16	80.55 M
N32-52	52	1.625	.250	3/16	83.21 M
N5404	56	1.750	.624	.192	77.53 M
N32-56	56	1.750	.250	.194	95.00 M
N32-62	62	1.938	.250	.198	102.00 M
N6186	62	1.938	.927	.250	97.27 M

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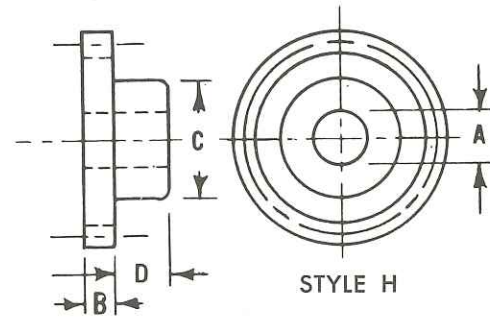
32 PITCH SPUR GEARS — WITH HUBS

- A \$25.00 set-up charge applies to each part ordered.
- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon.
- Apply for prices on quantities larger than 20M pieces.
- Prices subject to change without notice.

32 Pitch



Actual
Tooth Size



14½° PRESSURE ANGLE

PART NO.	TEETH	P. D.	HOLE A	STYLE	FACE B	HUB		PRICE PLUS SET-UP
						DIA. C	PROJ. D	
N32-12H	12	.375	.125	H	3/16	1/4	3/16	\$ 46.05 M
N6098	12	.375	.188	H	3/16	.279	.188	46.05 M
N32-14H	14	.438	.125	H	3/16	5/16	1/4	46.50 M
N32-16H	16	.500	.188	H	3/16	3/8	1/4	48.17 M
N5331	16	.500	.256	H	3/16	.406	.250	48.17 M
□N5484	18	.563	.252	H	3/16	.462	.250	48.87 M
N32-18H	18	.563	.188	H	3/16	3/8	1/4	48.87 M
N5015-2	20	.625	.255	H	.185	.487	.195	49.25 M
N32-20H	20	.625	.188	H	3/16	1/2	1/4	50.43 M
□N5828-20	20	.625	.248	H	3/8	.488	.185	52.16 M
□N5490-3	22	.688	.252	H	.188	.563	.250	52.56 M
N32-24H	24	.750	.188	H	3/16	5/8	1/4	51.87 M
□N5486-26	26	.813	.250	H	.250	.563	.250	56.30 M
□N5489-G	26	.813	.313	H	.250	.563	.250	56.30 M
N32-28H	28	.875	.188	H	3/16	5/8	1/4	53.42 M
N2075	32	1.000	.192	H	.260	.312	.312	56.97 M
N32-32H	32	1.000	.250	H	3/16	5/8	1/4	54.52 M
N32-36H	36	1.125	.250	H	3/16	5/8	1/4	56.05 M
□N5486-38	38	1.188	.252	H	.250	.563	.250	77.78 M
□N1010G	40	1.250	.313	H	.250	.563	.250	80.06 M
N32-40H	40	1.250	.250	H	3/16	5/8	1/4	76.77 M
N5880	40	1.250	.316	H	1/2	.620	.125	96.26 M
N32-44H	44	1.375	.250	H	3/16	5/8	1/4	79.40 M
N32-48H	48	1.500	.250	H	3/16	5/8	1/4	88.60 M
N32-52H	52	1.625	.250	H	3/16	5/8	1/4	98.10 M
N5829	52	1.625	.250	H	3/8	.504	.185	109.03 M
N32-62H	62	1.938	.250	H	.198	5/8	3/8	109.59 M
N6187	62	1.938	.375	H	.250	.614	.375	130.48 M

□ Hub has a .102 dia. cross hole.

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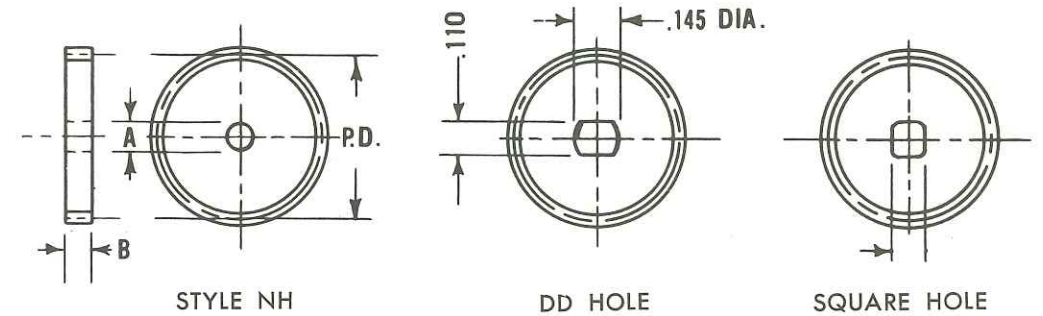
48 PITCH SPUR GEARS — PLAIN

- A \$25.00 set-up charge applies to each part ordered.
- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon.
- Apply for prices on quantities larger than 20M pieces.
- Prices subject to change without notice.

48 Pitch



Actual
Tooth Size



14½° PRESSURE ANGLE

PART NO.	TEETH	P. D.	HOLE A	STYLE	FACE B	PRICE PLUS SET-UP
N48-12	12	.250	.094	NH	.125	\$44.60 M
N363-3	12	.250	.145 Dia. x .110 DD	NH	.112	44.60 M
N48-14	14	.292	.094	NH	.125	44.83 M
N48-16	16	.333	.125	NH	.125	45.04 M
N6510	16	.333	.125	NH	.125	45.10 M
N48-18	18	.375	.125	NH	.125	45.27 M
N338	18	.375	.125	NH	.100	42.69 M
N48-20	20	.417	.125	NH	.125	45.50 M
N363-2	20	.417	.145 Dia. x .110 DD	NH	.112	45.50 M
N48-24	24	.500	.125	NH	.125	45.94 M
N48-28	28	.583	.125	NH	.125	46.37 M
N48-32	32	.667	.125	NH	.125	47.04 M
N6511	32	.667	.250	NH	.125	47.00 M
N48-36	36	.750	.188	NH	.125	47.70 M
N6011-36	36	.750	.315 Square	NH	.157	47.48 M
N6011-40	40	.833	.204	NH	.188	48.80 M
N48-40	40	.833	.188	NH	.125	48.80 M
N363-1	44	.917	.190" Square	NH	.112	47.70 M
N48-48	48	1.000	.188	NH	.125	50.35 M
N48-56	56	1.167	.188	NH	.125	66.22 M
N48-60	60	1.250	.250	NH	.125	67.48 M
N5715	60	1.250	.253	NH	.312	74.78 M
N48-64	64	1.333	.250	NH	.125	70.00 M
N48-72	72	1.500	.250	NH	.125	73.70 M
N48-80	80	1.667	.250	NH	.125	76.40 M

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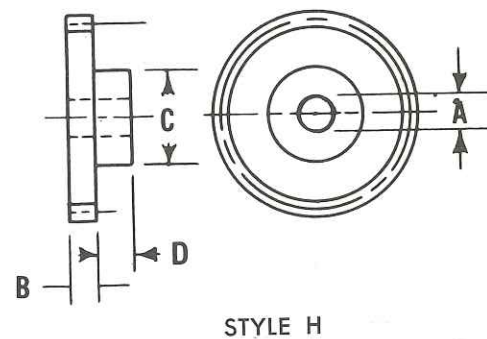
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48 PITCH SPUR GEARS — WITH HUBS

- A \$25.00 set-up charge applies to each part ordered.
- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon.
- Apply for prices on quantities larger than 20M pieces.
- Prices subject to change without notice.

48 Pitch

Actual
Tooth Size



STYLE H

14½° PRESSURE ANGLE

PART NO.	TEETH	P. D.	HOLE A	STYLE	FACE B	HUB		PRICE PLUS SET-UP
						DIA. C	PROJ. D	
N48-12H	12	.250	.094	H	.125	3/16	3/16	\$45.02 M
N48-14H	14	.292	.094	H	.125	1/4	3/16	45.38 M
N48-16H	16	.333	.125	H	.125	1/4	3/16	45.58 M
N48-18H	18	.375	.125	H	.125	5/16	3/16	46.10 M
N48-20H	20	.417	.125	H	.125	3/8	1/4	47.21 M
N48-24H	24	.500	.125	H	.125	3/8	1/4	49.38 M
N48-28H	28	.583	.125	H	.125	1/2	1/4	49.83 M
N48-32H	32	.667	.125	H	.125	1/2	1/4	50.50 M
N48-36H	36	.750	.188	H	.125	5/8	1/4	52.02 M
N335	40	.833	.125	H	.115	3/8	3/16	49.68 M
N48-40H	40	.833	.188	H	.125	5/8	1/4	53.12 M
N48-48H	48	1.00	.188	H	.125	5/8	1/4	54.66 M
N48-56H	56	1.167	.188	H	.125	5/8	1/4	71.28 M
*N5615	60	1.250	.250	H	.125	1	.25	77.90 M
N48-60H	60	1.250	.250	H	.125	5/8	1/4	71.80 M
N48-64H	64	1.333	.250	H	.125	5/8	1/4	74.40 M
N48-72H	72	1.500	.250	H	.125	5/8	1/4	76.77 M
N48-80H	80	1.667	.250	H	.125	5/8	1/4	80.20 M
N5617	96	2.000	.250	H	.125	1	1/4	93.80 M

*Has a hub 1/2 x 1/4 Projection on opposite side of gear.

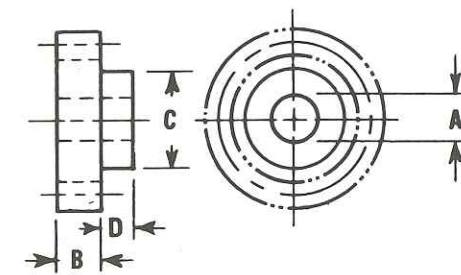
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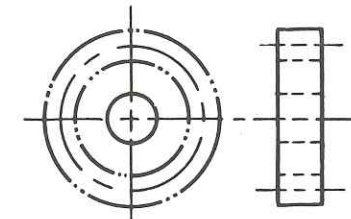
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MISCELLANEOUS GEARS 14½° AND 20° P.A.

- A \$25.00 set-up charge applies to each part ordered.
- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon.
- Apply for prices on quantities larger than 20M pieces.
- Prices subject to change without notice.



STYLE H



STYLE NH

14½° PRESSURE ANGLE

PART NO.	PITCH	TEETH	HOLE A	P. D.	STYLE	HUB		FACE B	PRICE PLUS SET-UP
						DIA. C	PROJ. D		
*N5013	12	16	.625	1.333	H	7/8	9/32	.487	\$ 76.85 M
N5017	12	18	1/4	1.500	NH	—	—	.404	71.10 M
N1142	12	30	.610	2.500	H	1"	5/8	.615	395.25 M
N1116-1	20	24	.315	1.20	H	.860	5/16	.375	184.16 M
N1116-2	20	24	.495	1.20	H	.860	5/16	.375	176.90 M
N1040	28	71	.610	2.536	NH	—	—	.255	171.60 M
N1040H	28	71	.625	2.536	H	1.250	.370	.255	177.60 M
N308	56	36	.092	.643	H	5/16	1/16	.125	26.22 M
N330	64	32	.099 dia. x .084 A.F.	.496	NH	—	—	.085	14.90 M
N337	64	32	.093	.496	H	.17	.046	.050	14.48 M
N205	64	60	.125	.938	H	1/2	1/8	.125	51.24 M

20° PRESSURE ANGLE

N5453	10	12	.480	1.2	NH	—	—	1.072	\$143.28 M
N6610	12	16	.600	1.333	NH	—	—	13/16	128.80 M
N1191	12	26	1.312	2.166	NH	—	—	13/16	256.00 M
N6204	20	20	.215	1.000	H	.423	.500	1/4	81.64 M
N6203	20	24	.375	1.200	H	5/8	1/2	1/4	86.40 M
*N6333	20	30	.875	1.500	NH	—	—	3/8	104.55 M
N6176	20	30	.255	1.500	H	5/8	1/8	.1875	80.31 M
N6555	32	34	.244	1.062	H	.532	.185	1/8	43.98 M
N5138	40	35	.187	.875	NH	—	—	1/8	28.65 M
N6275	36	9	.124 D.D.	.250	H	.187	.015	1/8	51.10 M
N6416	64	48	.185	.750	NH	—	—	.180	61.30 M

*Has Counterbore

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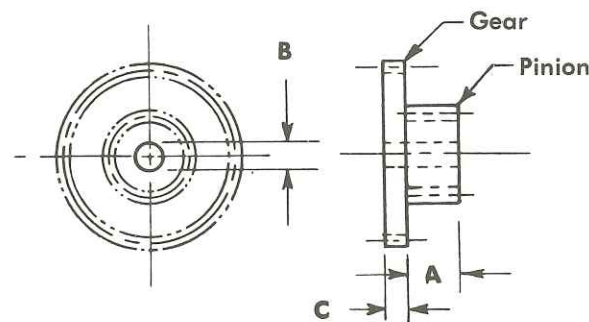


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32 PITCH COMBINATION GEARS

- A \$25.00 set-up charge applies to each part ordered.
- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon.
- Apply for prices on quantities larger than 20M pieces.
- Prices subject to change without notice.

32 Pitch



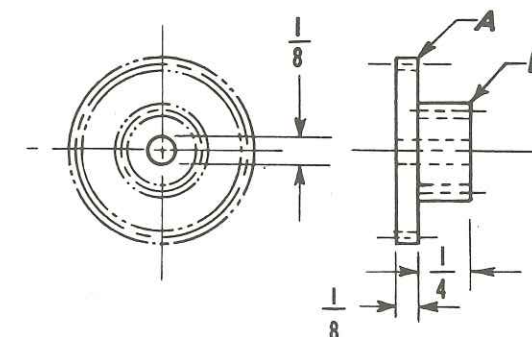
PINION							GEAR					PRICE PLUS SET-UP
PART NO.	PITCH	TEETH	P.D.	FACE A	HOLE B	P.A.	PITCH	TEETH	P.D.	FACE C	P.A.	
N318	32	8	.24	.203	.128	14½	32	34	1.063	.158	14½	\$ 52.12 M
N217	32	8	.24	.260	.125	14½	48	60	1.25	.125	14½	54.10 M
N6258	32	15	.469	5/16	.312	20°	32	64	2.000	1/4	20°	114.63 M
N6471-1	32	16	.500	3/16	.250	14½	32	20	.625	3/16	14½	70.64 M
N6512-1	32	16	.500	3/16	.250	14½	32	22	.687	3/16	14½	66.40 M
N6471-2	32	16	.500	3/16	.250	14½	32	24	.750	3/16	14½	72.10 M
N6512-2	32	16	.500	3/16	.250	14½	32	26	.812	3/16	14½	74.60 M
N6471-3	32	16	.500	3/16	.250	14½	32	28	.875	3/16	14½	76.80 M
N6512-3	32	16	.500	3/16	.250	14½	32	30	.937	3/16	14½	81.60 M
N1182-1	32	16	.500	3/16	.250	14½	32	36	1.125	3/16	14½	146.72 M
N32-16-40	32	16	.500	.180	.254	14½	32	40	1.25	.195	14½	57.84 M
N1182-2	32	16	.500	3/16	.250	14½	32	44	1.375	3/16	14½	158.20 M
N1182-3	32	16	.500	3/16	.250	14½	32	48	1.500	3/16	14½	176.60 M
N5445	32	18	.562	.310	.180	14½	48	48	1.00	.16	14½	61.80 M
N6318	32	32	1.000	3/16	.248	14½	32	48	1.500	3/16	14½	96.18 M

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48 PITCH COMBINATION GEARS

- A \$25.00 set-up charge applies to each part ordered.
- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon.
- Apply for prices on quantities larger than 20M pieces.
- Prices subject to change without notice.

48 Pitch



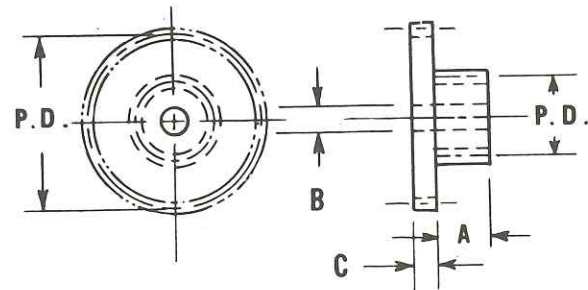
14½° PRESSURE ANGLE			
PART NO.	PINION TEETH (B)	GEAR TEETH (A)	PRICE PLUS SET-UP
N48-12-36	12	36	\$48.36 M
N48-12-40	12	40	49.02 M
N48-12-48	12	48	50.46 M
N48-12-56	12	56	62.38 M
N48-12-60	12	60	64.00 M
N48-12-64	12	64	65.70 M
N48-12-72	12	72	66.48 M
N48-12-80	12	80	67.24 M
N48-14-36	14	36	47.37 M
N48-14-40	14	40	49.44 M
N48-14-48	14	48	51.60 M
N48-14-56	14	56	64.50 M
N48-14-60	14	60	65.36 M
N48-14-64	14	64	65.94 M
N48-14-72	14	72	70.20 M
N48-14-80	14	80	74.44 M
N48-16-36	16	36	49.25 M
N48-16-40	16	40	50.94 M
N48-16-48	16	48	52.62 M
N48-16-56	16	56	65.16 M
N48-16-60	16	60	66.64 M
N48-16-64	16	64	68.10 M
N48-16-72	16	72	71.81 M
N48-16-80	16	80	75.44 M



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MISCELLANEOUS COMBINATION GEARS

- A \$25.00 set-up charge applies to each part ordered.
- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon.
- Apply for prices on quantities larger than 20M pieces.
- Prices subject to change without notice.



PINION						GEAR						PRICE PLUS SET-UP
PART NO.	PITCH	TEETH	P.D.	FACE A	HOLE B	P.A.	PITCH	TEETH	P.D.	FACE C	P.A.	
N5602-2	24	12	.50	.250	.255*	14½°	24	30	1.25	.225	14½°	\$ 62.90 M
N5721	24	14	.583	.550	.255	20°	24	24	1.00	.375	20°	67.35 M
N6102	24	15	.625	.359	.250	20°	24	36	1.50	.187	14½°	70.00 M
N6444	48	9	.187	.160	.096	14½°	48	40	.833	1/16	14½°	51.10 M
N6531	48	12	.250	.218	.126	14½°	48	36	.750	1/8	14½°	53.60 M
N5157	48	12	.25	.140	.130	14½°	48	40	.833	.100	14½°	54.10 M
N5744	48	16	.333	.25	.125	14½°	48	60	1.25	.125	14½°	55.44 M
N5717	48	18	.375	.563	.130	14½°	48	54	1.125	.125	14½°	55.86 M
N5702	48	20	.417	.188	.257	14½°	48	60	1.25	.125	14½°	54.54 M
N5726	48	20	.417	.188	.257	14½°	48	80	1.667	.125	14½°	61.35 M
N6234	48	30	.625	.125	.250	14½°	48	48	1.00	.125	14½°	74.35 M
N6251	48	35	.729	.065	.220	20°	48	80	1.667	.095	20°	79.12 M

*Counterbored hole (.375 x .1 dp.)

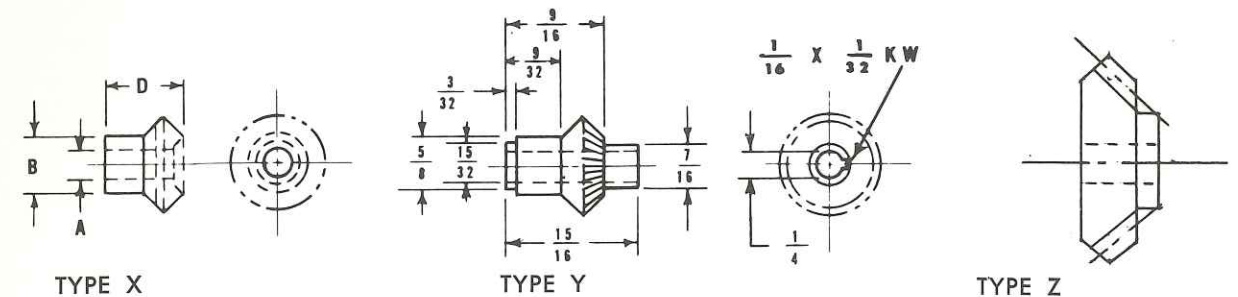
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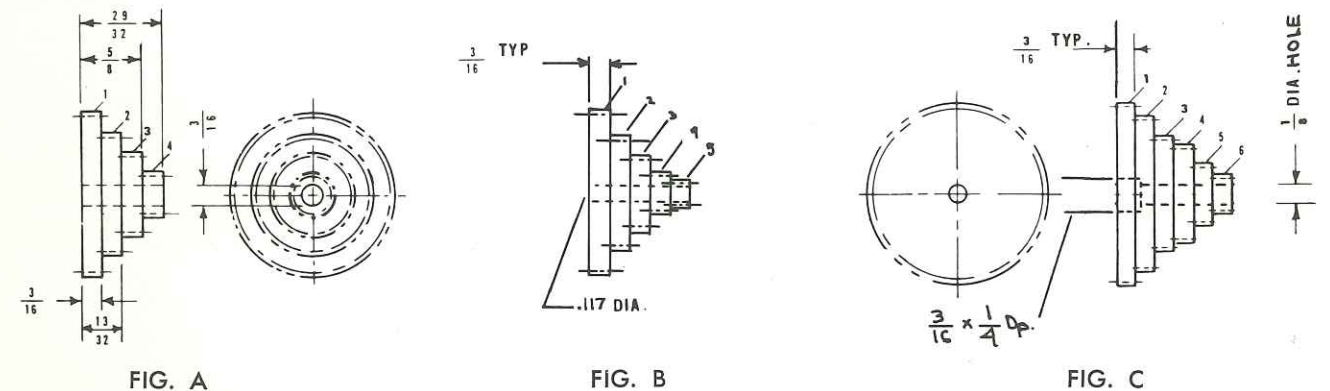
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MITER GEARS — 90° AND GEAR CLUSTERS

- A \$25.00 set-up charge applies to each part ordered.
- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon.
- Apply for prices on quantities larger than 20M pieces.
- Prices subject to change without notice.



20° PRESSURE ANGLE									
PART NO.	P.D.	PITCH	TEETH	HOLE A	TYPE	MOUNTING DIMEN. DISTANCE	HUB DIA. D	B	PRICE PLUS SET-UP
N6093-1	.500	32	16	.095	Z	.344	.192	.250	\$ 45.27 M
N6093-2	.500	32	16	.158	X	.813	.678	.250	47.08 M
N174	.5	32	16	.156	X	.525	.356	.408	43.20 M
N361	.5	64	32	.192	X	.563	.432	.365	46.37 M
N5346	.60	20	12	D ¼ x .195	X	.67	.460	.520	47.82 M
N5613	1.0	24	24	DD ¾ x .25	X	1.125	.781	.688	62.90 M
N2023	1.0	24	24	¼	Y	SEE DIAGRAM			59.20 M
N1048	2.200	10	22	.995	X	1.99	1.310	1.510	450.00 M



14½° PRESSURE ANGLE									
PART NO.	FIGURE	PITCH	NUMBER OF TEETH						PRICE PLUS SET-UP
			1	2	3	4	5	6	
N5762	A	32	48	36	18	12	—	—	\$86.12 M
N5698	B	48	60	48	36	24	12	—	74.64 M
N5699	C	48	48	40	32	24	16	12	66.92 M

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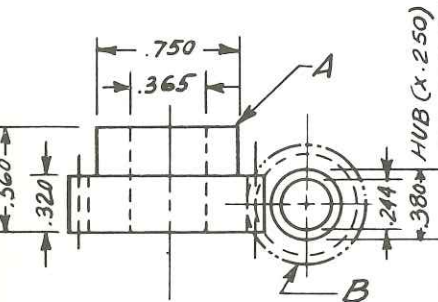


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MISCELLANEOUS GEARS

- A \$25.00 set-up charge applies to each part ordered.
- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon.
- Apply for prices on quantities larger than 20M pieces.
- Prices subject to change without notice.

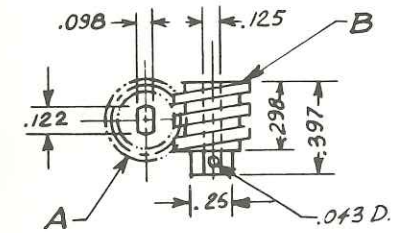
ANGLE DRIVE GEARS



45° Helix Angle R.H.

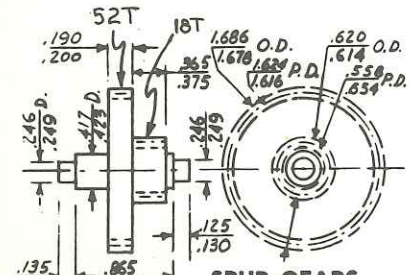
- A. 24 D.P. B. 24 D.P.
24 Teeth 12 Teeth
1.00 P.D. .50 P.D.
14½° P.A. 14½° P.A.

N5224 \$71.64 M PAIRS + Setup



- N334 WORM GEAR (A)**
48 Pitch
16 Teeth
.332 P. D.
Helix 3°-49'
R. H. 20° P.A.
Ratio 1:16
- N333 WORM (B)**
48 Pitch
Single Thread
.300 P. D.
R. H. 20° P.A.

N333-334 \$40.00 M PAIRS + SETUP

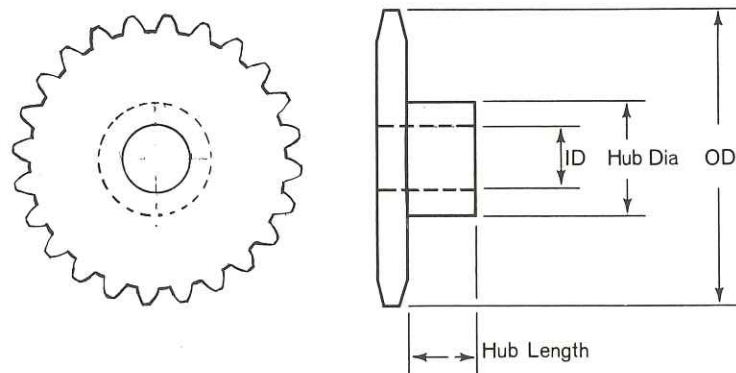




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1/4" PITCH SPROCKETS

- A \$25.00 set-up charge applies to each part ordered.
- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon.
- Apply for prices on quantities larger than 20M pieces.
- Prices subject to change without notice.



PART NO.	TEETH	O.D.	I.D.	HUB DIA.	HUB LENGTH	PRICE PLUS SET-UP
N6174	7	.590	.125	.250	.540	\$ 60.10 M
N6174-1	7	.590	.125	.250	.125	60.60 M
N6174-2	7	.590	.125	.250	.255	60.90 M
N5728	10	.919	.260 x .205 "D"	.500	.520	71.10 M
N5728-1	12	1.083	.260 x .190 "D"	.620	.520	76.01 M
N6529	12	1.083	.247	.437	.261	79.34 M
N6556	12	1.083	.495	.687	.085	79.10 M
N6558	12	1.083	.246	.434	.192	79.86 M
N5736	12	1.083	.312	.620	.510	81.67 M
N5737	15	1.297	.254	.617	.510	86.22 M
*N6286	17	1.487	.500	1.050 & .925	.270	89.77 M
N6826	18	1.568	.250	1.125	.500	92.75 M
N6391	21	1.809	.700	1.370	.420	95.92 M
N6006-1	24	2.049	.125	.490	.140	98.61 M
N6157	24	2.049	1.338	1.610	.400	106.20 M

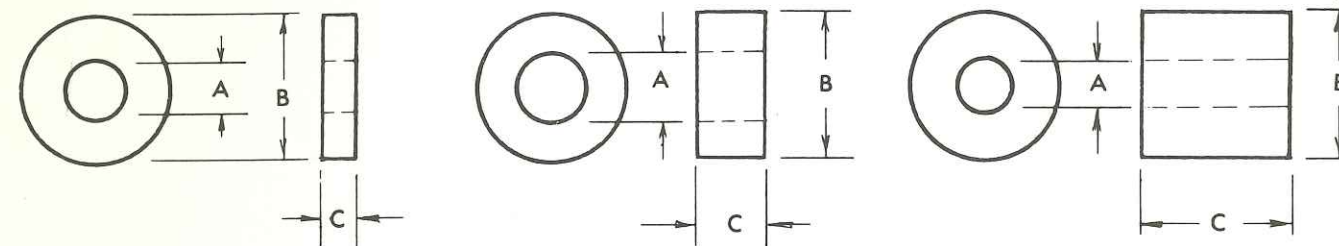
*Hub on both sides.

†Not included in Engineering Kit shown on Page four.

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PLAIN BEARINGS, WASHERS, STAND-OFFS

- A \$25.00 set-up charge applies to each part ordered.
- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon, natural color.
- All fractional sizes are Black Nylon.
- Apply for prices on quantities larger than 50M pieces.
- Prices subject to change without notice.



PART NO.	A HOLE	B O.D.	C LENGTH	PRICE PLUS SET-UP
N6170	.076	.110	.108	\$ 7.40 M
N6366	.080	.120	.025	7.70 M
N5803	.080	.250	.058	4.37 M
N5259A	.086	.182	.561	5.02 M
N5042	.094	.186	.188	4.37 M
N5229A	.094	.190	.074	4.37 M
NFL-24	.098	.192	.190	8.38 M
N5348	.103	.485	.361	11.60 M
N5584	.105	.378	.186	5.52 M
N6075	.106	.194	.022	4.37 M
N5382	.107	.154	.042	4.37 M
NFL-4	.110	.220	.125	8.28 M
N5854-1	.122	.370	.218	25.56 M
N350	.122	.253	.118	7.62 M
N457	.122	.180	.113	4.37 M
N6421	.123	.251	.190	6.79 M
N5854-2	.125	.306	.185	14.70 M
N5210	.130	.251	.158	4.82 M
N5143	.130	.248	.205	4.60 M
N5349	.130	.247	.300	5.02 M
N481	.132	.186	.403	4.60 M
N6078	.134	.271	.507	5.48 M
N5556-2	.153	.205	.040	4.37 M
N5769	.155	.248	.317	4.80 M

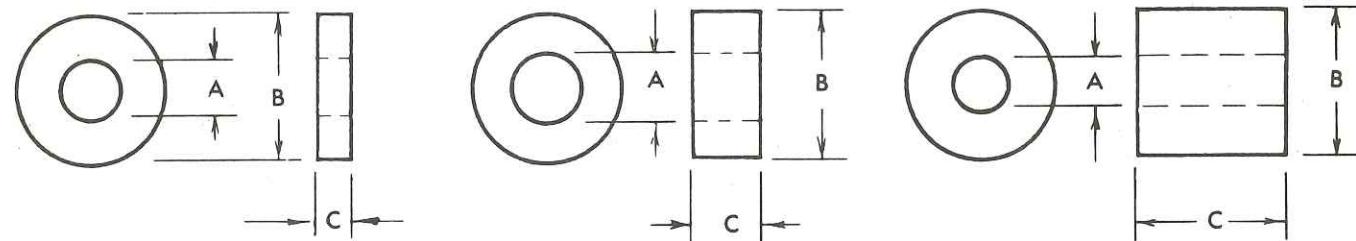
PART NO.	A HOLE	B O.D.	C LENGTH	PRICE PLUS SET-UP
N6063-1	.157	.380	.132	\$14.68 M
N6063-2	.160	.444	.133	14.92 M
N6064	.160	.615	.215	11.62 M
N5451	.169	.242	.248	4.60 M
N5332	.170	.255	.100	4.60 M
N6324	.172	.375	.130	7.25 M
N5765	.176	.282	.435	5.26 M
N5770	.176	.302	.435	5.48 M
N6029	.180	.250	.244	9.96 M
N5165-1	.183	.620	.560	27.40 M
N5218	.183	.272	.092	5.43 M
N5123	.184	.310	.475	5.92 M
N5771	.186	.316	.203	5.52 M
N5767	.187	.282	.480	5.04 M
N6330	.187	.312	.305	4.76 M
N3-1-D142	3/16	5/16	5/16	22.90 M
N3-1A	3/16	3/8	3/8	24.50 M
N3-2	3/16	7/16	7/16	26.50 M
N5772	.185	.316	.173	5.46 M
N5289	.190	.308	.500	5.92 M
N235	.190	.316	.261	8.06 M
N233-1	.190	.316	.161	7.85 M
N233-2	.190	.318	.267	8.16 M
N278	.190	.435	.128	10.64 M



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PLAIN BEARINGS, WASHERS, STAND-OFFS

- A \$25.00 set-up charge applies to each part ordered.
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- Standard material is Dupont #101 Nylon, natural color.
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PART NO.	A HOLE	B O.D.	C LENGTH	PRICE PLUS SET-UP
N1097-1	.190	.750	.346	\$86.44 M
NFL-27	.192	.290	.133	9.74 M
N5137	.192	.465	.315	9.10 M
N2048	.192	.745	.372	54.10 M
N6341	.192	.375	.045	11.76 M
N5284	.192	.750	.070	9.40 M
N5442	.185	.910	.424	43.20 M
N5181	.193	.625	.246	11.60 M
N6016	.194	.314	.068	4.37 M
N2083	.194	.620	.378	51.02 M
N168	.194	.620	.984	64.40 M
N6232-1	.196	.441	.735	72.86 M
N5648	.195	.562	.334	13.80 M
N401	.198	.248	.510	5.28 M
NFL-7	.203	.622	.192	17.33 M
N6293	.203	.250	.140	9.94 M
N5321	.205	.468	.122	6.07 M
N6083	.207	.302	.130	4.60 M
N5957	.208	.377	.750	10.95 M
N5126	.209	.478	.126	14.90 M
N5085	.210	.500	.170	7.37 M
N6509	.220	.375	.304	5.53 M
N5625	.220	.625	.031	7.72 M
N5532	.224	.316	.204	4.82 M
N6835	.225	.375	.089	4.82 M
N5235	.225	.348	.114	4.82 M
N5773	.226	.316	.177	4.60 M
N5473	.228	.282	.300	4.66 M

PART NO.	A HOLE	B O.D.	C LENGTH	PRICE PLUS SET-UP
N6015	.230	.315	.069	\$4.37 M
N5551-2	.249	.550	.252	14.63 M
N6605	.250	.375	.203	7.40 M
N4-1	1/4	3/8	3/8	23.80 M
N4-1A	1/4	7/16	7/16	26.10 M
N4-2	1/4	1/2	1/2	28.20 M
N5033-8	.252	.375	.456	9.40 M
N5340	.252	.614	.247	13.50 M
N5033-6	.253	.377	.250	11.16 M
N6349	.253	.372	1.589	15.54 M
N5624	.254	.438	.378	8.40 M
N6232-2	.254	.441	.315	68.57 M
N5315	.254	.745	.715	61.14 M
NFL-11	.255	.376	.354	21.13 M
N5437	.255	.497	.251	8.00 M
N5433-1	.255	.620	.097	11.08 M
N306-1	.255	.630	.250	18.45 M
N5712	.257	.493	.220	9.17 M
N5171	.258	.632	.500	22.40 M
N5990	.260	.378	.176	5.18 M
N5551-1	.263	.565	.565	18.40 M
N6164	.269	.500	.218	7.80 M
N306	.272	.630	.250	18.45 M
N5329	.273	.610	.250	10.50 M
N5285	.285	.758	.126	14.63 M
N2112	.294	.614	.932	49.67 M
N5604	.308	.553	.485	15.05 M

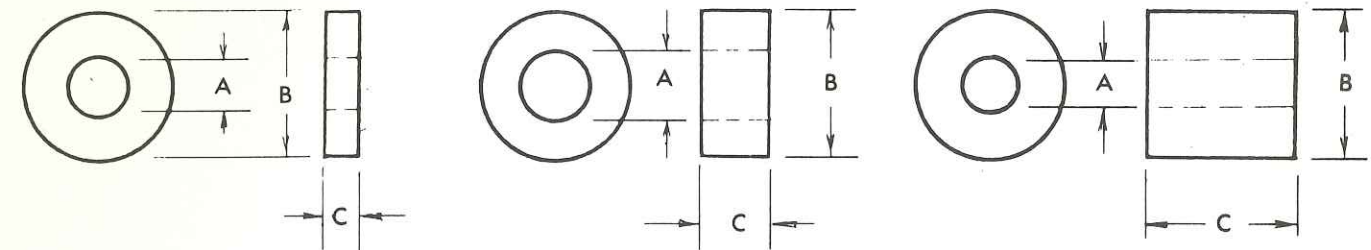
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PLAIN BEARINGS, WASHERS, STAND-OFFS

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PART NO.	A HOLE	B O.D.	C LENGTH	PRICE PLUS SET-UP
N6049	.297	.342	.344	\$ 4.80 M
N5872-2	.308	.585	.132	15.36 M
N5-1	5/16	7/16	7/16	24.30 M
N5-1A	5/16	1/2	1/2	27.10 M
N5-2	5/16	9/16	9/16	29.80 M
N6327	.312	.625	.220	10.36 M
N6326	.312	.625	.156	9.74 M
N6325	.312	.625	.094	9.53 M
N5525-2	.314	.808	.427	58.52 M
N5525-1	.317	.750	.432	28.30 M
N6836	.318	.442	.880	18.66 M
N5852	.319	.433	.942	11.60 M
N6122	.322	.528	.102	8.05 M
N2110	.348	.742	.992	62.47 M
N6-1	3/8	1/2	1/2	24.60 M
N6-1A	3/8	9/16	9/16	28.60 M
N6-2	3/8	5/8	5/8	31.80 M
N5065	.377	.554	.060	6.48 M
N5842	.378	.504	.375	12.17 M
N6044	.380	.506	1.002	19.32 M
N189	.381	.525	.093	13.58 M
N5193	.390	.538	1.928	37.68 M
N6232-3	.495	.687	.234	69.33 M
N7-1	7/16	9/16	9/16	26.00 M
N7-1A	7/16	5/8	5/8	30.10 M
N7-2	7/16	11/16	11/16	33.90 M
N6643	.500	.625	.168	19.80 M

PART NO.	A HOLE	B O.D.	C LENGTH	PRICE PLUS SET-UP
N8-1	1/2	5/8	5/8	\$26.50 M
N8-1A	1/2	11/16	11/16	31.80 M
N8-2	1/2	3/4	3/4	36.30 M
N5307	.503	.820	.095	9.17 M
N5582-1	.504	.875	.125	45.90 M
N5640	.520	.750	.094	11.18 M
N9-1	9/16	11/16	11/16	27.90 M
N9-1A	9/16	3/4	3/4	33.70 M
N9-2	9/16	13/16	13/16	38.80 M
NFL-3	.562	.685	.438	13.35 M
N5657	.565	.812	.094	11.38 M
N1097-3	.572	1.250	.220	91.45 M
N10-1	5/8	3/4	3/4	33.60 M
N10-1A	5/8	13/16	13/16	42.60 M
N10-2	5/8	7/8	7/8	48.60 M
N5641	.630	1.000	.094	12.77 M
N5654	.675	.875	.094	11.60 M
N2115	.680	1.630	.125	86.94 M
N11-1	11/16	13/16	13/16	35.50 M
N11-1A	11/16	7/8	7/8	44.70 M
N11-2	11/16	15/16	15/16	51.90 M
N12-1	3/4	7/8	7/8	36.60 M
N12-1A	3/4	15/16	15/16	47.10 M
N12-2	3/4	1	1	55.40 M
N2130	.759	1.000	.500	81.17 M

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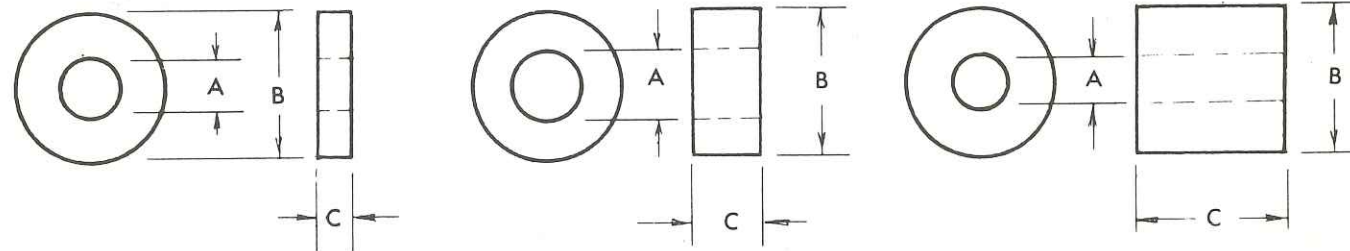
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PART NO.	A HOLE	B O.D.	C LENGTH	PRICE PLUS SET-UP
N5655	.760	1.063	.094	\$14.50 M
N5658	.790	1.000	.094	13.67 M
N13-1	13/16	15/16	15/16	38.60 M
N13-1A	13/16	1	1	49.50 M
N13-2	13/16	1 1/16	1 1/16	58.90 M
N14-1	7/8	1	1	40.50 M
N14-1A	7/8	1 1/16	1 1/16	52.30 M
N14-2	7/8	1 1/8	1 1/8	62.50 M
N5656	.890	1.125	.094	14.02 M
N5659	.935	1.125	.094	14.02 M
N15-1	15/16	1 1/16	1 1/16	42.70 M
N15-1A	15/16	1 1/8	1 1/8	55.00 M
N15-2	15/16	1 3/16	1 3/16	66.20 M

PART NO.	A HOLE	B O.D.	C LENGTH	PRICE PLUS SET-UP
N16-1	1	1 1/8	1 1/8	\$ 44.30 M
N16-1A	1	1 3/16	1 3/16	58.10 M
N16-2	1	1 1/4	1 1/4	70.70 M
N5660	1.025	1.188	.094	16.00 M
*N17-1	1 1/16	1 3/16	1 3/16	P.O.A.
*N17-1A	1 1/16	1 1/4	1 1/4	P.O.A.
*N17-2	1 1/16	1 5/16	1 5/16	P.O.A.
*N18-1	1 1/8	1 1/4	1 1/4	P.O.A.
*N18-1A	1 1/8	1 5/16	1 5/16	P.O.A.
*N18-2	1 1/8	1 3/8	1 3/8	P.O.A.
N6162	1.290	2.140	.098	62.25 M
N5813	1.555	2.058	.120	58.96 M
N1106	1.612	3.170	.254	174.84 M

*Not included in Engineering Kit WSB-4 shown on Page four.

P.O.A. Price upon application.

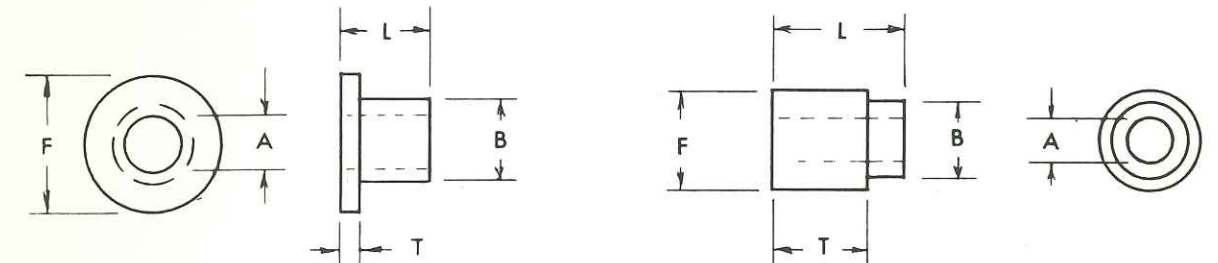
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PART NO.	I. D. A	O. D. B	FL. DIA. F	FL. THK. T	O. L. L	PRICE PLUS SET-UP
NFL-19	.047	.070	.107	.017	.028	\$ 9.72 M
NFL-28	.064	.130	.188	.038	.094	9.74 M
N2079A	.094	.136	.212	.032	.090	24.24 M
N6847	.100	.154	.224	.028	.230	11.10 M
N422	.110	.134	.375	.024	.105	5.40 M
N5111	.116	.158	.316	.052	.148	4.60 M
N6505	.116	.158	.306	.047	.109	6.44 M
N5342	.118	.148	.312	.048	.085	4.60 M
N5212	.122	.150	.247	.046	.225	4.60 M
N5228	.124	.148	.253	.050	.148	4.60 M
N5722	.128	.187	.318	.028	.218	4.60 M
N267	.130	.163	.247	.250	.360	7.85 M
N2033	.132	.187	.275	.128	.330	8.05 M
N276	.132	.184	.308	.045	.112	7.62 M
NFL-6	.133	.370	.973	.038	.098	26.22 M
N471	.136	.234	.380	.096	.182	5.25 M
N5817	.138	.198	.250	.094	11/32	5.64 M
N5794	.143	.250	.325	.088	.676	7.18 M
N2079B	.145	.248	.372	.063	.125	24.66 M
N5464	.153	.222	.375	.050	.250	5.10 M
N5644	.155	.250	.312	.062	.688	6.77 M
N6039	.157	.250	.312	.010	.132	44.60 M
N5286	.158	.224	.375	.064	.252	4.86 M
N6310	.159	.250	.312	.062	.250	9.39 M
*NFL-20	.160	*.250	.383	.050	.440	16.00 M
N5316-1	.162	.192	.247	.144	.250	7.62 M
N5316-2	.162	.192	.247	.306	.408	7.85 M

*.062 radius on end of .250 shank dia.

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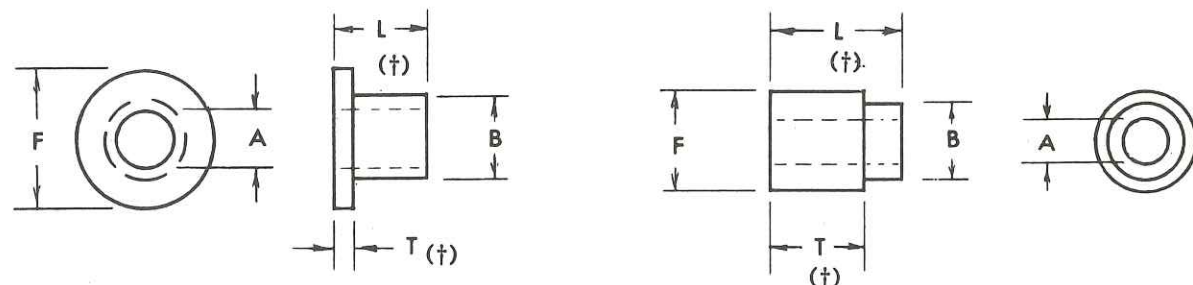
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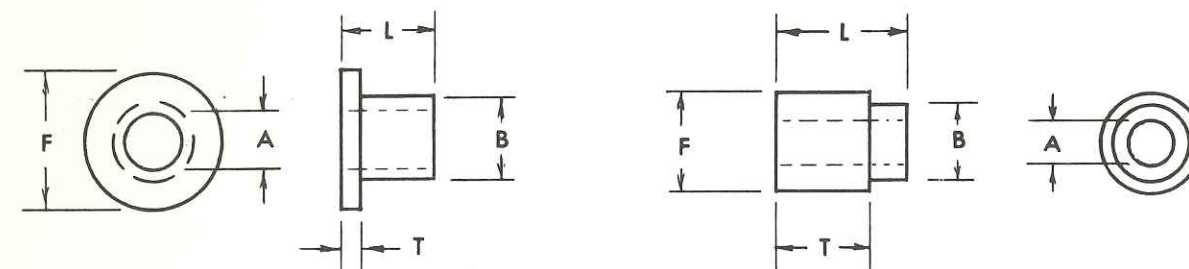


PART NO.	I. D. A	O. D. B	FL. DIA. F	FL. THK. T	O. L. L	PRICE PLUS SET-UP
N6232-4	.164	.500	.625	.125	.281	\$70.59 M
N5408	.165	.255	.370	.053	.226	5.30 M
N5093	.172	.248	.308	.127	.208	4.83 M
N5043	.182	.270	.358	.052	.478	5.75 M
N5009	.185	.272	.364	.052	.570	5.96 M
NFL-21	.188	.230	.500	.035	.660	24.90 M
NF3-1	3/16	5/16	7/16	1/16	5/16	25.42 M
NF3-1A	3/16	3/8	1/2	1/16	3/8	27.85 M
NF3-2	3/16	7/16	9/16	1/16	7/16	30.71 M
N260	.192	.308	.438	.180	.255	11.52 M
N5040	.193	.375	.550	.093	.186	7.78 M
N5966	.195	.236	.340	.042	.225	4.90 M
N5919	.195	.282	.500	.032	.065	7.65 M
N6021	.197	.270	.360	.025	.128	4.75 M
N6653	.200	.502	.625	.109	.375	18.10 M
N6295	.203	.250	.375	.062	.222	9.53 M
NFL-16	.204	.340	.684	.030	.187	11.00 M
NFL-14	.208	.315	.616	.055	.102	11.50 M
NFL-15	.216	.367	.553	.105	.160	11.50 M
N288	.222	.317	.500	.328	.630	19.56 M
N5182	.238	.356	.658	.106	.278	9.36 M
ND71	1/4	3/8	1/2	1/16	3/8	26.70 M
NF4-1A	1/4	7/16	9/16	1/16	7/16	30.00 M
NF4-2	1/4	1/2	5/8	1/16	1/2	33.00 M
N5859	.252	.386	.502	.065	.435	8.20 M
N5389	.252	.310	.500	.064	.255	5.40 M
N5369	.252	.500	.870	.375	.996	42.75 M
N5788	.245	.283	.667	.100	.232	9.17 M
N6294	.253	.372	.750	.062	.288	27.63 M

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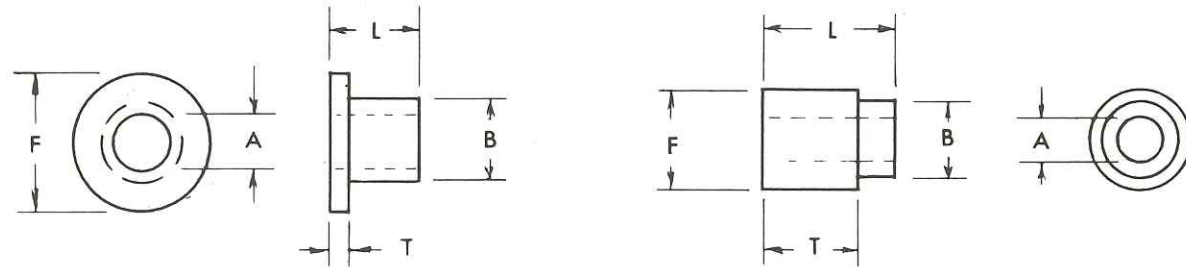
PART NO.	I. D. A	O. D. B	FL. DIA. F	FL. THK. T	O. L. L	PRICE PLUS SET-UP
N5209	.265	.305	.440	.032	.390	\$ 6.47 M
N2052	.257	.442	.688	.078	.437	48.35 M
N458	.257	.312	.569	.068	.128	6.05 M
N5330-1	.257	.378	.622	.064	.279	9.15 M
N5433-2	.258	.375	.620	.134	.888	18.90 M
N5550-1	.258	.439	.620	.188	.500	29.72 M
N5187	.260	.312	.625	.032	.198	8.05 M
N5330-2	.260	.375	.625	.062	.218	8.73 M
N5041	.261	.488	.622	.125	.250	12.84 M
N5214	.257	.336	.500	.049	.368	8.28 M
N5067-4	.263	.309	.438	.030	.286	14.68 M
N5142-2	.265	.510	1.000	.167	.634	56.75 M
N5154	.292	.438	.617	.035	.564	10.72 M
N6323	.312	.373	.500	.093	.250	13.52 M
ND117	5/16	7/16	9/16	1/16	7/16	27.57 M
NF5-1A	5/16	1/2	5/8	1/16	1/2	31.42 M
NF5-2	5/16	9/16	11/16	1/16	9/16	35.48 M
N443	.314	.350	.508	.056	.202	6.70 M
N5067-8	.318	.363	.496	.028	.280	8.05 M
N6076	.318	.375	.502	.180	.334	7.36 M
N6375	.318	.440	.622	.035	.564	15.00 M
N5934	.322	.493	.744	.128	.650	16.60 M
N426	.322	.455	.704	.058	.145	8.28 M
N5145-3	.325	.570	.660	.063	.295	10.74 M
N5412-1	.327	.502	.760	.082	.460	14.38 M
N427	.335	.450	.620	.046	.228	8.73 M
ND104	3/8	1/2	5/8	1/16	1/2	28.00 M
NF6-1A	3/8	9/16	11/16	1/16	9/16	33.57 M
NF6-2	3/8	5/8	3/4	1/16	5/8	38.14 M



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N5007-1	.378	.494	.745	.220	.438	\$15.70 M
N5007-2	.378	.494	.745	.130	.350	13.73 M
N5007-3	.380	.496	.750	.045	.257	11.52 M
N5901	.380	.626	.742	.262	.388	18.36 M
N5412-2	.382	.502	.760	.082	.460	13.50 M
N5036	.382	.496	.817	.061	.295	12.60 M
N5965	.384	.632	.755	.248	1.130	33.12 M
N5403	.385	.560	1.500	.056	.307	32.40 M
NFL-13	.388	.508	.630	.070	.376	11.94 M
N5145-2	.388	.570	.660	.063	.295	10.08 M
NF7-1-D182	7/16	9/16	11/16	1/16	9/16	29.85 M
NF7-1A	7/16	5/8	3/4	1/16	5/8	35.85 M
NF7-2	7/16	11/16	13/16	1/16	11/16	41.14 M
N5145-1	.450	.570	.660	.063	.345	9.87 M
N6048	.465	.627	.880	.037	.255	12.63 M
N5568	.500	.735	1.120	.100	.370	26.96 M
NF8-1-D145	1/2	5/8	3/4	1/16	5/8	30.71 M
NF8-1A	1/2	11/16	13/16	1/16	11/16	38.66 M
NF8-2	1/2	3/4	7/8	1/16	3/4	44.50 M
N2131	.503	.580	.818	.040	.296	69.08 M
N5136	.504	.689	.810	.125	.444	16.15 M
N6147	.512	.636	3/4	1/16	.260	12.63 M
NF9-1	9/16	11/16	7/8	1/16	11/16	32.73 M
NF9-1A	9/16	3/4	15/16	1/16	3/4	40.82 M
NF9-2	9/16	13/16	1	1/16	13/16	48.28 M
NFL2-2	.570	.658	.812	.050	.362	47.25 M
N2129	.613	1.000	1.125	.097	.465	94.47 M
N6077	.616	.816	1.250	.098	.497	37.68 M
NF10-1-D153	5/8	3/4	15/16	1/16	3/4	34.10 M

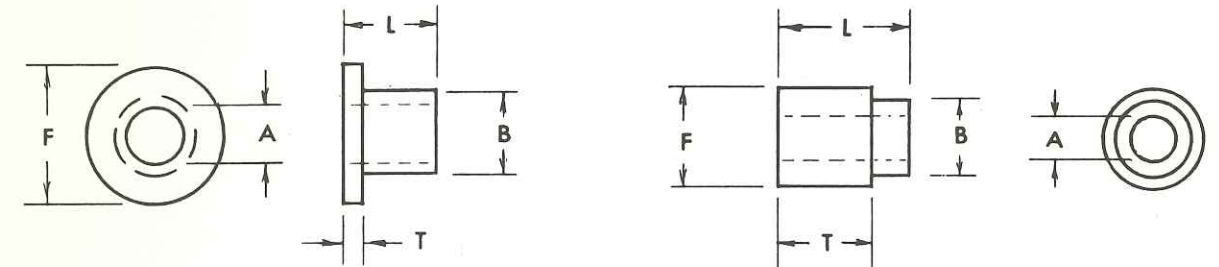
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NF10-1A	5/8	13/16	1	1/16	13/16	\$47.00 M
NF10-2	5/8	7/8	1 1/16	1/16	7/8	55.50 M
NF11-1	11/16	13/16	1	1/16	13/16	37.00 M
NF11-1A	11/16	7/8	1 1/16	1/16	7/8	50.00 M
NF11-2	11/16	15/16	1 1/8	1/16	15/16	60.30 M
NF12-1-D141	3/4	7/8	1 1/16	1/16	7/8	38.50 M
NF12-1A	3/4	15/16	1 1/8	1/16	15/16	53.40 M
NF12-2	3/4	1	1 3/16	1/16	1	65.40 M
N2136	.757	1.000	1.495	.111	.593	87.93 M
NFL2-1	.758	.850	.995	.050	.175	46.37 M
NF13-1	13/16	15/16	1 1/8	1/16	15/16	41.10 M
NF13-1A	13/16	1	1 3/16	1/16	1	56.80 M
NF13-2	13/16	1 1/16	1 1/4	1/16	1 1/16	70.20 M
N6384	.875	1.250	1.438	.125	1.500	157.62 M
NF14-1	7/8	1	1 3/16	1/16	1	44.14 M
NF14-1A	7/8	1 1/16	1 1/4	1/16	1 1/16	60.80 M
NF14-2	7/8	1 1/8	1 5/16	1/16	1 1/8	75.40 M
NF15-1	15/16	1 1/16	1 1/4	1/16	1 1/16	47.61 M
NF15-1A	15/16	1 1/8	1 5/16	1/16	1 1/8	64.70 M
NF15-2	15/16	1 3/16	1 3/8	1/16	1 3/16	80.76 M
NF16-1	1	1 1/8	1 5/16	1/16	1 1/8	49.57 M
NF16-1A	1	1 3/16	1 3/8	1/16	1 3/16	69.10 M
NF16-2	1	1 1/4	1 7/16	1/16	1 1/4	87.85 M
NF17-1	1 1/16	1 3/16	1 3/8	1/16	1 3/16	P.O.A.
NF17-1A	1 1/16	1 1/4	1 7/16	1/16	1 1/4	P.O.A.
NF17-2	1 1/16	1 5/16	1 1/2	1/16	1 5/16	P.O.A.
NF18-1	1 1/8	1 1/4	1 7/16	1/16	1 1/4	P.O.A.
NF18-1A	1 1/8	1 5/16	1 1/2	1/16	1 5/16	P.O.A.
NF18-2	1 1/8	1 3/8	1 9/16	1/16	1 3/8	P.O.A.

P.O.A. Price upon application.

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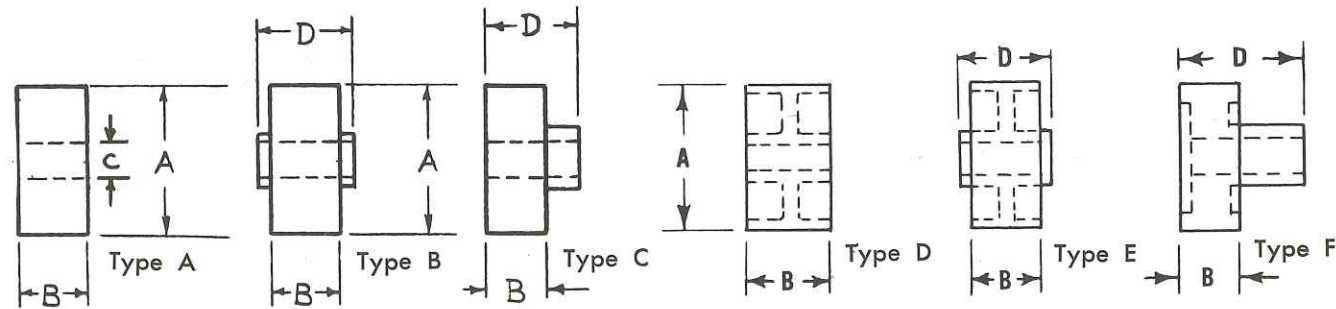
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ROLLERS — SOLID AND CORED

- A \$25.00 set-up charge applies to each part ordered.
- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon.
- Apply for prices on quantities larger than 20M pieces.
- Prices subject to change without notice.



PART NO.	TYPE	O. D. A	B	I. D. C	O. L. D	PRICE PLUS SET-UP
N5648	A	.562	.334	.195	—	\$ 13.80 M
N5165-1	A	.620	.560	.183	—	27.40 M
N2083	A	.620	.378	.194	—	51.02 M
N168	A	.620	.984	.194	—	64.40 M
N1097-1	A	.750	.346	.190	—	86.44 M
N2048	A	.745	.372	.192	—	54.10 M
N5442	A	.910	.424	.185	—	43.20 M
N5181	A	.625	.246	.193	—	11.60 M
N5340	A	.614	.247	.252	—	13.50 M
N5315	A	.745	.715	.254	—	61.14 M
N306-1	A	.630	.250	.255	—	18.45 M
N5171	A	.632	.500	.258	—	22.40 M
N5525-2	A	.808	.427	.314	—	58.52 M
N2110	A	.742	.992	.348	—	62.47 M
N1097-3	A	1.250	.220	.572	—	91.45 M
N5151	B	.188	.112	.100	.128	4.37 M
NFL-25	B	.372	.158	.196	.177	9.95 M
N1125-1	B	.875	.308	.187	.338	37.80 M
N1097-2	C	1.073	.206	.254	.218	75.80 M
N1097-4	C	1.183	.212	.315	.228	87.40 M
N1125-2	C	1.187	.200	.343	.218	49.00 M
N1097-5	C	1.250	.212	.254	.225	93.62 M
N5005	D	1.063	1.000	.256	—	80.57 M
N5758	D	1.125	1.422	.406	—	93.84 M
N5347	D	1.437	.625	.190	—	63.90 M
N6654	D	1.475	.674	.252	—	96.10 M
N6604	D	1.610	.437	.251	—	107.80 M
N1185	D	2.445	.625	.503	—	239.40 M
NS1200	D	2.875	.625	.500	—	255.00 M
N6603	E	1.824	.340	.443	.410	67.35 M
N6382	E	1.918	.937	.302	.981	221.06 M
N6242	E	2.000	.500	.502	.540	135.52 M
N2016	F	1.330	.285	.248	.655	69.55 M

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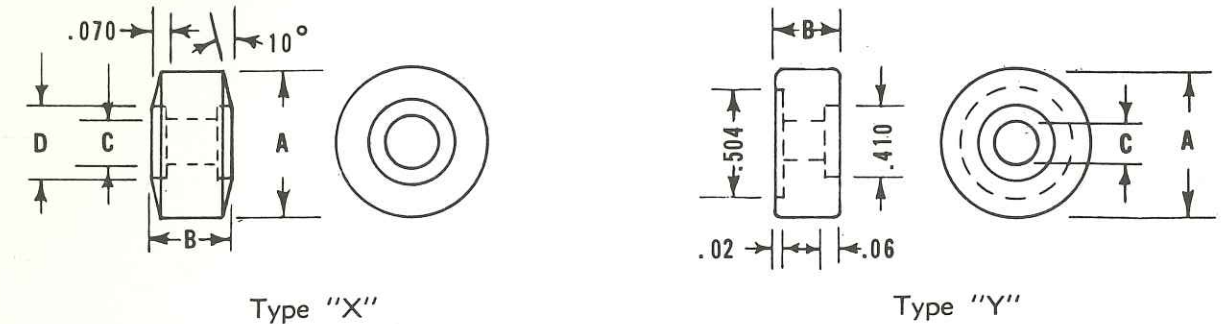
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WHEELS AND ROLLERS

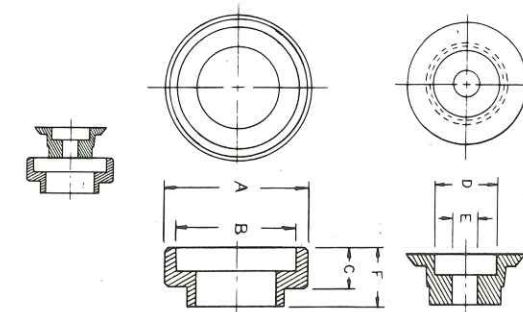


- A \$25.00 set-up charge applies to each part ordered.
- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon.
- Apply for prices on quantities larger than 50M pieces.
- Prices subject to change without notice.



PART NO.	TYPE	O. D. A	THICK B	BORE C	CT. BORE D	PRICE PLUS SET-UP
N5174	X	.500	.300	.195	.255	\$ 9.12 M
N5175	X	.620	.300	.198	.258	14.60 M
N5203A	Y	.748	.238	.255	—	49.90 M
N6281	X	.750	.156	.258	—	18.06 M

2-PIECE ROLLER



	Diam. A	B	C	D	E	F	PRICE
N1069	1.125	.940	.312	.515	.262	.472	\$50.64 M + SET-UP
N1070	.758	.625	.255	.316	.170	.360	\$21.60 M + SET-UP

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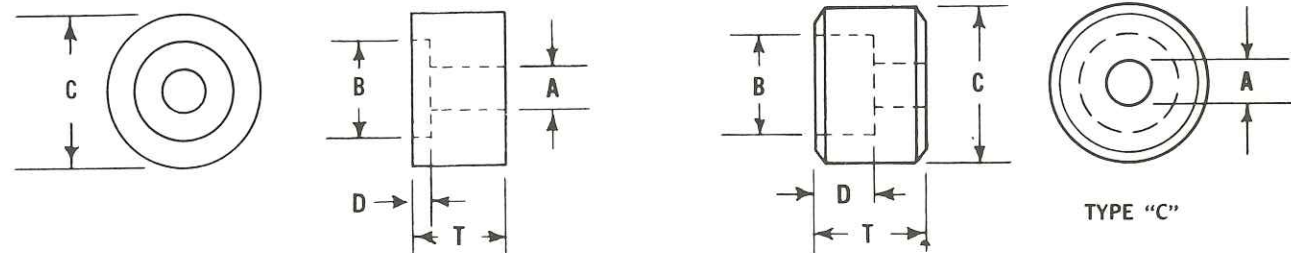
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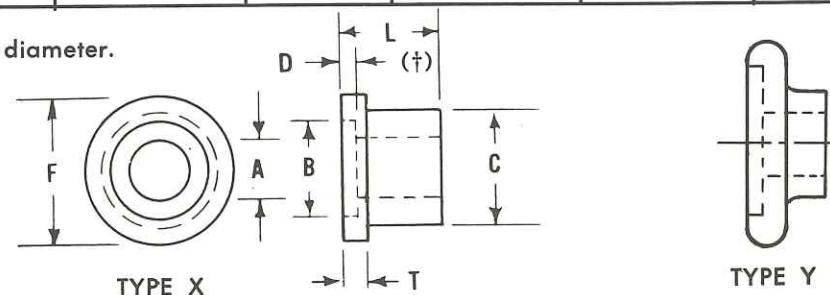
PLAIN AND FLANGED ROLLERS WITH COUNTERBORED HOLES

- A \$25.00 set-up charge applies to each part ordered.
- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon.
- Apply for prices on quantities larger than 50M pieces.
- Prices subject to change without notice.



PART NO.	A (DIA.) HOLE	C-BORE B (DIA.)	C O.D.	D-DEPTH C-BORE	T LENGTH	PRICE PLUS SET-UP
N6238	.158	.344	.437	.052	.187	\$ 9.08 M
N424	.194	.318	.440	.073	.255	7.80 M
(*C)N5312	.195	.430	.750	.213	.348	21.32 M
(*C)N5273	.195	.412	.750	.065	.200	11.82 M
(*C)N5675	.208	.500	.862	.148	.496	40.12 M
N5116	.250	.463	.885	.265	.314	23.30 M
(*C)N6229	.255	.375	.875	.187	.375	23.80 M
(*C)N2092	.435	1.114	1.492	.137	.632	138.18 M

*C = Chamfer on outside diameter.



PART NO.	TYPE	A (DIA.) HOLE	B (DIA.) CT'BORE	C O.D.	D DEPTH CT'BORE	F (DIA.) FLANGE	T THK. FLANGE	L LENGTH	PRICE PLUS SET-UP
N6094	X	.187	.275	.383	.062	.502	.022	.125	\$ 6.48 M
N6045	X	.200	.395	.280	.015	.670	.065	.196	11.08 M
N2006	X	.238	.302	.340	.270	.432	.057	.486	10.85 M
N5645	X	.250	.375	.375	.078	.750	.188	.344	15.48 M
N112	X	.314	.500	.440	.063	.687	.259	.406	49.45 M
N5375	X	.320	.503	.562	.063	.750	.100	.438	15.05 M
N1049	Y	.360	.875	.625	.062	1.215	.214	.410	38.70 M

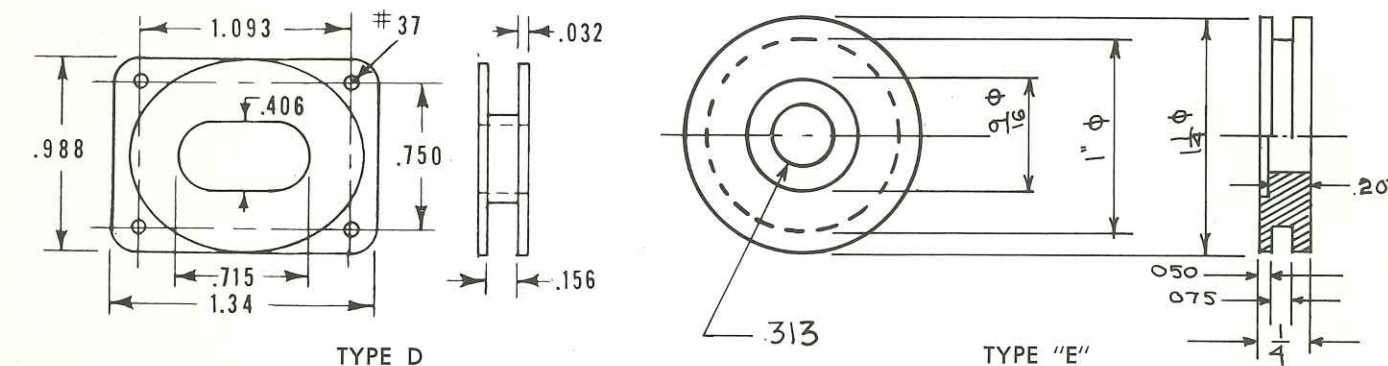
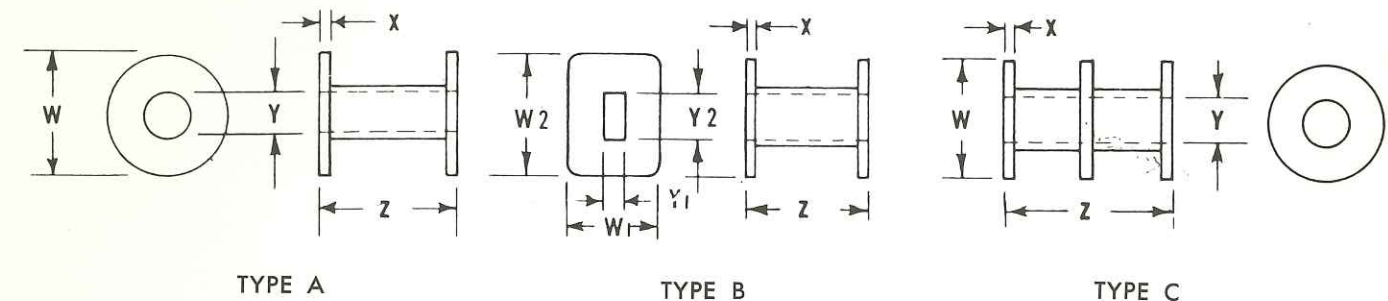
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BOBBINS AND SPOOLS

- A \$25.00 set-up charge applies to each part ordered.
- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon.
- Apply for prices on quantities larger than 50M pieces.
- Prices subject to change without notice.



PART NO.	TYPE	FL. DIA. W	FL. THK. X	HOLE SIZE Y	O. A. L. Z	PRICE PLUS SET-UP
N5853	A	.502	.065	.257	.406	\$18.00 M
N5141	A	.695	.032	.255	.751	20.58 M
N5806	A	.887	.046	.580	.759	78.40 M
N6261	A	1.000	.048	.633	1.000	61.78 M
N6262	A	1.125	.048	.774	1.125	61.10 M
N6340	A	1.375	.030	.593	.600	92.56 M
N1065	A	1.384	.067	.657	1.187	109.50 M
N418	B	.422 X .496	.030	.090 X .202	.555	45.48 M
N5323	C	.748	.040	.192	.697	31.08 M
N467	D	see diagram				28.43 M
N6153	E	see diagram				59.62 M

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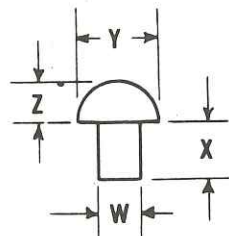


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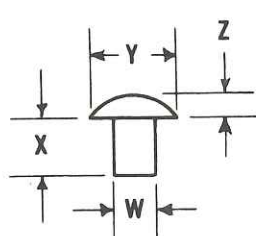
RIVETS, BUTTONS, PLUGS

- A \$25.00 set-up charge applies to each part ordered.
- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon.
- Apply for prices on quantities larger than 50M pieces.
- Prices subject to change without notice.

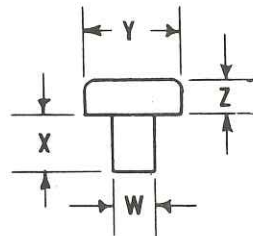
Round Head
Type "A"



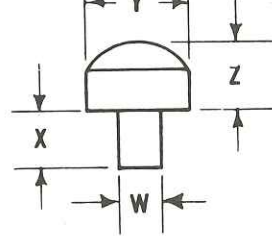
Brazier Head
Type "B"



Flat Head
Type "C"



Fillister Head
Type "D"



PART NO.	HEAD TYPE	SHANK DIA. W	SHANK LEN. X	HEAD DIA. Y	HEAD THK. Z	PRICE PLUS SET-UP
N5027	A	.062	.106	.092	.050	\$ 4.30 M
N2002	A	.090	.050	.156	.065	4.30 M
N277	A	.093	.160	.190	.060	5.20 M
N385	A	.108	.045	.200	.092	5.20 M
N5352	A	.126	.065	.216	.110	4.58 M
N6108	A	.181	.470	.250	.093	6.68 M
N6112	B	.148	.300	.405	.100	4.80 M
N497-1R	B	.150	.312	.380	.078	5.04 M
N498-R	B	.158	.188	.535	.090	5.25 M
N497-2R	B	.160	.075	.385	.075	4.80 M
N428-1R	B	.160	.250	.381	.100	5.04 M
N5328	C	.075	.100	.200	.020	4.30 M
N2100	C	.089	.038	.192	.268	5.42 M
N5609-1R	C	.091	.060	.155	.065	4.30 M
N5609-2R	C	.091	.060	.155	.096	4.32 M
N5609-3R	C	.091	.060	.155	.128	4.37 M
NFL-8	C	.092	.033	.156	.032	4.37 M
N2093	C	.092	.038	.184	.080	5.12 M
N416-R	C	.116	.405	.192	.068	4.80 M
N5326-R	C	.120	.152	.187	.028	6.03 M
N5391	C	.125	.190	.403	.082	6.08 M
N5344-1R	C	.126	.245	.340	.128	14.70 M
N5462-R	C	.134	.285	.250	.090	4.82 M
N421-3	C	.158	.185	.314	.035	4.80 M
N5011-R	C	.158	.178	.345	.082	5.02 M
N428-2R	C	.160	.245	.386	.110	5.28 M
N6080	C	.176	.250	.464	.100	9.84 M
N5165-2	C	.186	.495	.618	.190	21.90 M
N2053-R	C	.192	.220	.355	.068	10.20 M
N2117-R	C	.203	.214	.252	.098	10.42 M
N5407	D	.068	.046	.125	.082	4.30 M
N478	D	.069	.050	.127	.110	4.30 M
N5246	D	.076	.062	.156	.093	4.30 M
N5341	D	.089	.041	.125	.156	5.94 M
N5188	D	.093	.060	.155	.055	4.30 M
N421	D	.158	.185	.308	.058	4.80 M
N421-1R	D	.158	.195	.310	.095	4.80 M

The letter "R" following part number designates a chamfer on end of shank.

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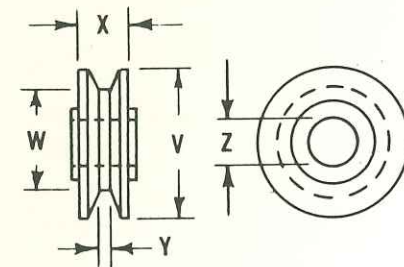
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PULLEYS



- A \$25.00 set-up charge applies to each part ordered.
- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon.
- Apply for prices on quantities larger than 25M pieces.
- Prices subject to change without notice.



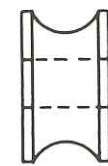
Type A



Type B



Type C



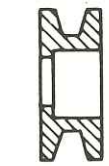
Type D



Type E



Type F



Type G

PART NO.	TYPE	O. D. V	SLOT O. D. W	WIDTH X	SLOT WTH. Y	BORE Z	PRICE PLUS SET-UP
N5269	A*	.304	.165	.125	.030	.085	\$ 9.56 M
N5215	A*	.398	.308	.123	.043	.073	14.68 M
N6172	B	.314	.252	.090	.032	.070	17.25 M
N5587	B	.878	.654	.404	.125	.194	36.16 M
N6639	C	.500	.375	.125	—	.129	15.40 M
N5359	D	.500	.400	.308	—	.128	16.68 M
N6507	D	.500	.405	.157	.093	.095	21.84 M
N6227-1	D	.625	.437	.250	.187	.257	41.32 M
N6227-2	D	.875	.687	.250	.187	.257	45.36 M
N1061	D	.977	.625	.408	.343	.252	47.88 M
N6227-3	D	1.000	.812	.250	.187	.257	63.88 M
N1060	D	1.018	.848	.380	.268	.332	47.45 M
N6091	D	1.110	.875	.316	.190	.192	80.30 M
N6222	D	1.125	.812	.397	.218	.638	52.42 M
N5747	D	1.255	.994	.623	.390	.508	69.58 M
N6173-7171	D	1.372	1.000	.344	.275	.254	51.06 M
**N1057	D	1.400	.988	1.000	.875	.494	128.95 M
N1033	D	2.615	2.120	.495	.250	.506	222.60 M
N402	E	.680	.520	.310	—	.125	22.34 M
N5147	F	.586	.345	.222	.063	.132	16.48 M
N2064	G	.775	.630	.120	.063	.382—.530	45.94 M
N7092	C	5/8	.475	.185	—	.258	19.90 M

A* Pulley without hub either side.

**Has hub 5/8 O.D. x .105 Projection one side.

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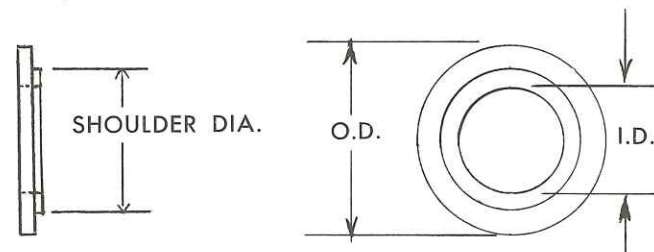
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SHOULDER WASHERS

- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon, Delrin & Teflon.
- Prices upon application.



SCREW SIZE	O. D.	SHOULDER DIA.	I. D.
#2	1/4	.154	.090
4	1/4	.186	.116
6	5/16	.186	.142
8	3/8	.246	.168
10	3/8	.312	.194
12	3/8	.312	.220
1/4	1/2	.312	.254
5/16	1/2	.370	.317
3/8	5/8	.437	.380
7/16	3/4	.527	.443
1/2	3/4	.590	.505

SHOULDER THICKNESS030 ± .010
FLANGE THICKNESS050 ± .010

Prices and Delivery Dates on Request.

nylomatic division, morrisville, bucks county, pennsylvania

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STAMPED WASHERS

- No set-up charge.
- Refer to page 3 for General Specifications.
- Standard material is Dupont #101 Nylon.
- Prices upon application.



Listed below are the sizes of stamped washers we can furnish without tooling charges.

These are available in nylon, Delrin*, Nylatron GS**, polyethylene and Teflon*.

Standard thicknesses are .032", .047", .062", .093" and .125".

Standard tolerances on O.D. x I.D. ± .004, thickness ± 5 to 10%.

Prices upon application.

Any punching is based on the wall thickness (distance from I. D. to O. D.) being at least as great as the stock thickness.

I. D.	O. D.	I. D.	O. D.	I. D.	O. D.
1/8	3/16	7/16	3/4	7/8	1 1/4
1/8	1/4	7/16	7/8	7/8	1 1/2
1/8	3/8	7/16	1	31/32	1 1/8
1/8	1/2	1/2	5/8	15/16	1 1/4
5/32	1/4	1/2	3/4	1	1 1/4
3/16	1/4	1/2	7/8	1	1 1/2
3/16	3/8	33/64	1	1	1 5/8
3/16	1/2	9/16	11/16	1	1 3/4
13/64	9/16	9/16	3/4	1	1 15/16
1/4	3/8	9/16	7/8	1 1/8	1 1/2
1/4	1/2	9/16	1	1 1/8	1 5/8
1/4	9/16	5/8	3/4	1 1/8	1 3/4
1/4	5/8	5/8	7/8	1 1/8	1 15/16
1/4	3/4	5/8	1	1 1/4	1 1/2
5/16	1/2	41/64	1 1/8	1 1/4	1 5/8
5/16	9/16	11/16	3/4	1 1/4	1 3/4
5/16	5/8	11/16	7/8	1 1/4	1 15/16
5/16	3/4	11/16	1	1 3/8	1 5/8
3/8	1/2	11/16	1 1/8	1 3/8	1 3/4
3/8	9/16	3/4	1	1 3/8	1 15/16
3/8	5/8	3/4	1 1/8	1 1/2	1 3/4
3/8	3/4	3/4	1 1/4	1 1/2	1 15/16
3/8	1	3/4	1 1/2	1 11/16	2 3/4
7/16	5/8	7/8	1 1/8	2 3/8	3 1/2

(*Reg. trade name—DuPont Co. **Reg. trade name—Polymer Corp.)

nylomatic division, morrisville, bucks county, pennsylvania

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PHYSICAL PROPERTY CHART

	Property	Units	Test Method ASTM	NYLON 101	DELIN	Glass Filled DELIN	DELIN A. F.	TFE-Fluoro-carbon
MECHANICAL	Tensile Strength, 73°F.	psi	D-638	9,000-12,000	10,000-12,000	8500	6900	1,500-5,000
	Elongation, 73°F.	%	D-638	20-200	20-75	7	12	75-350
	Modulus of Elasticity, 73°F.	psi	D-638	250,000-400,000	360,000-500,000	880,000	—	50,000-90,000
	Flexural Strength, 73°F.	psi	D-790	12,500-14,000	14,100-15,500	11,000	400,000	No Break
	Hardness, Rockwell, 73°F.		D-785	R110-120	R120-R122	R118	R118	R10-20
THERMAL	Durometer, 73°F.		D-676	D80-85	—	—	—	D55-70
	Tensile Impact	ft. lbs./sq. in.		90-180	40-80	—	—	30-200
	Coef. of Linear Thermal Exp.	in./in./°F.	D-696	5.5 x 10	4.5 x 10	2.0-4.5 x 10	4.5 x 10	5.5 x 10
	Deformation Under Load	%	D-621	1.0-3.0	0.4-0.5	.5	—	3-7
	122°F., 2,000 psi					315	212	
ELECTRICAL	Heat Distortion, 264 psi	°F.	D-648	200-450	212	345	329	120
	Temperature, 66 psi	°F.		400-460	338	347	370-410	270
	Melting Point	°F.	D-789	496±9	347			621±9
	Dielectric Strength	volts/mil	D-149	300-400	500	—	—	400-500
	Short Time (.080" Thickness)							
CHEMICAL	Volume Resistivity	OHM-CM	D-257	4.5 x 10 ¹³	6 x 10 ¹⁴	—	—	10
	Dielectric Constant, 60 cy.		D-150	4.1	—	—	—	2.0-2.1
	10 ³ cy.			4.0	3.7	—	—	2.0-2.1
	10 ⁶ cy.			3.4	3.7	—	—	2.0-2.1
	10 ⁸ cy.			—	—	—	—	2.0-2.1
MISC.	Dielectric Loss Tangent, 60 cy.		D-150	0.014	—	—	—	< 0.0005
	10 ³ cy.			0.02	—	—	—	< 0.0005
	10 ⁶ cy.			0.04	.0048	—	—	< 0.0005
	10 ⁸ cy.			—	—	—	—	< 0.0005
	Resistant To:	—	—	Common solvents, hydrocarbons, esters, ketones, alcohols, dilute acids.	Practically all solvents, hydrocarbons, esters, ketones, some dilute acids and some dilute alkalis.	Practically all solvents, hydrocarbons, esters, ketones, some dilute acids and some dilute alkalis.	Practically all solvents, hydrocarbons, esters, ketones, some dilute acids and some dilute alkalis.	All chemicals and solvents, except molten alkali metals and flourine.
	Not Resistant To:	—	—	Phenol, formic acid, concentrated mineral acids.	Most acids and bases.	Most acids and bases.	Most acids and bases.	Halogenated solvents absorbed to minor degree at elevated temperatures and pressures.
	Water Absorption Immersion (24 hrs.)	%	D-570	0.6-1.5	0.12-0.25	.25	.06	0.00-0.05
	Saturation (Boiled to Constant Wt.)	%		7.9				
	Equilibrium (50% R.H. 73°F.)	%		2.5	0.2	.20	—	
	Specific Gravity		D-792	1.14-1.15	1.420-1.435	1.56	1.54	2.1-2.3
	Coefficient of Friction (No Lubricant)	—	—	.1-.3	.1-.3	.2	.05-.15	.04
	Mil. Specs.	—	—	milp—17091B milmm—20693A	LP392A	—	—	AMS—3651B

nylomatic division, morrisville, bucks county, pennsylvania

